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# HEALTH STATISTICS

FROM THE U.S. NATIONAL HEALTH SURVEY

Attitudes Toward Co-operation in a health examination survey





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# HEALTH STATISTICS

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# Attitudes Toward Co-operation in a health examination survey

A study of factors associated with stated intentions of co-operation

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The U. S. National Health Survey is a continuing program under which the Public Health Service makes studies to determine the extent of illness and disability in the population of the United States and to gather related information. It is authorized by Public Law 652, 84th Congress.

# CO-OPERATION OF THE NATIONAL OPINION RESEARCH CENTER AND THE UNIVERSITY OF CHICAGO

Under legislation establishing the National Health Survey, the Public Health Service is authorized to use, insofar as possible, the services or facilities of other Federal, State, or private agencies. The methodological study in this report was performed under a contractual arrangement with the National Opinion Research Center, The University of Chicago.

### **PREFACE**

#### BACKGROUND OF THE STUDY

This is one of a series of methodological studies planned by the U. S. National Health Survey in the development of a special Health Examination Survey to collect morbidity data based on clinical examinations of a representative sample of the population. The results of two studies have appeared in reports entitled A Study of Special Purpose Medical-History Techniques and Co-operation in Health Examination Surveys, 2

The particular value of a health examination survey lies in its ability to produce reliable diagnostic data on morbidity through the use of medical personnel and objective laboratory tests and measurements. However, the development of this special survey presented a series of problems requiring solution before it could be set under way. Methodological studies were necessary since valid and tested methods did not exist for the collection of many of the needed types of health data, and since improvement and standardization of techniques were vital to the success of the program.

Results of several community studies involving health examinations indicated that one of the principal problems of conducting a nationwide health examination survey would be a potentially low rate of response. The Baltimore, Hunterdon, and Pittsburgh studies involving both household interviews and physical examinations indicated that a complex of factors involving attitudes and health experiences may combine to produce substantial nonresponses. Although the effect of the nonresponse is not known, it is a potential

source of serious bias in the data produced by clinical examinations.

Thus results of these earlier studies clearly indicated a need for systematic efforts to estimate the amount of co-operation to be expected in a national sample study and to investigate the more important factors associated with favorable and unfavorable response patterns.

As an initial step in the study of response to be expected in a health examination survey, a supplemental question regarding willingness to be examined was added to the health interview, which is a continuing part of the National Health Survey. Analysis of the results, as reported in Series D-2 of Health Statistics from the U. S. National Health Survey, provided useful information about relative degrees of co-operation to be expected by region, urban, and rural areas, and selected demographic variables.

However, it was believed desirable to carry further the study of willingness to participate and, in particular, to investigate differences in the attitudes of persons expressing interest in being examined and of those who were apparently reluctant. The National Health Survey asked the National Opinion Research Center (NORC) to undertake such a study. The study also offered an opportunity to investigate, for the purpose of increasing response rates, the relative value of varying several of the actual arrangements for the examination, such as the length of the examination, transportation arrangements, location of the examination center, and the examiners used.

The scope of the NORC project was determined by the following considerations:

1. The general objective was to investigate the attitudes, health experiences, and other factors associated with response to a request to participate in a nationwide health examination survey.

2. NORC interviews would be conducted with persons previously interviewed in the regular sample of the Health Interview Survey. This feature of the design was desirable for two major reasons: First, a large reservoir of health data would thus be available for combined use with the attitudinal and health experience data to be gathered in the second interview. Securing extensive data in both areas in a single interview would have posed special problems of interviewer training and

<sup>&</sup>lt;sup>1</sup>U.S. National Health Survey. A Study of Special Purpose Medical-History Techniques. Health Statistics. Series D-1. PHS Publication No. 584-D1. Public Health Service. Washington, D. C., January 1960.

<sup>&</sup>lt;sup>2</sup>U.S. National Health Survey. Co-operation in Health Examination Surveys. Health Statistics. Series D-2. PHS Publication No. 584-D2. Public Health Service. Washington, D.C., June 1960.

<sup>&</sup>lt;sup>3</sup>Commission on Chronic Illness in 1953-54. Chronic Illness in a Large City. The Baltimore Study (Chronic Illness in the United States, Vol. IV). Harvard University Press, Cambridge, Mass., 1957.

<sup>&</sup>lt;sup>4</sup>Commission on Chronic Illness: Chronic Illness in a Rural Area.
The Hunterdon Study (Chronic Illness in the United States, Vol. III). Harvard University Press, Cambridge, Mass., 1959.

<sup>&</sup>lt;sup>5</sup>Chen, E., and Cobb, S.: Further Study of the Nonparticipation Problems in a Morbidity Survey Involving Clinical Examination. J. Chronic Diseases 7: 321-331. April 1958.

greatly lengthened the NORC interview. Second, asking respondents again about their willingness to participate in a health examination survey would provide a check of the stability of responses secured in the initial health interview. It was felt that the cross-classification of these responses would more nearly reflect the behavior expected if an actual examination were being offered.

- 3. The sample was restricted to the U.S. urban noninstitutional population. The restriction to urban population was imposed because it was only in the urban areas that both NORC and National Health Survey interviewers could economically interview the same sample.
- 4. The population to be studied was to be the adult population under 65 years of age. It had already been decided to exclude children from the health examination survey, and at the time the study was done it was the intention to exclude persons 65 years of age and over.
- 5. It was not expected that this preliminary investigation would yield conclusive answers to the problem but rather a series of working hypotheses. The resulting hypotheses and methods developed were to be studied further in a series of field pretests of the whole health examination survey procedure. Also, it was not anticipated that a single method would be equally applicable to areas of different population densities or even geographic sections of the Nation.

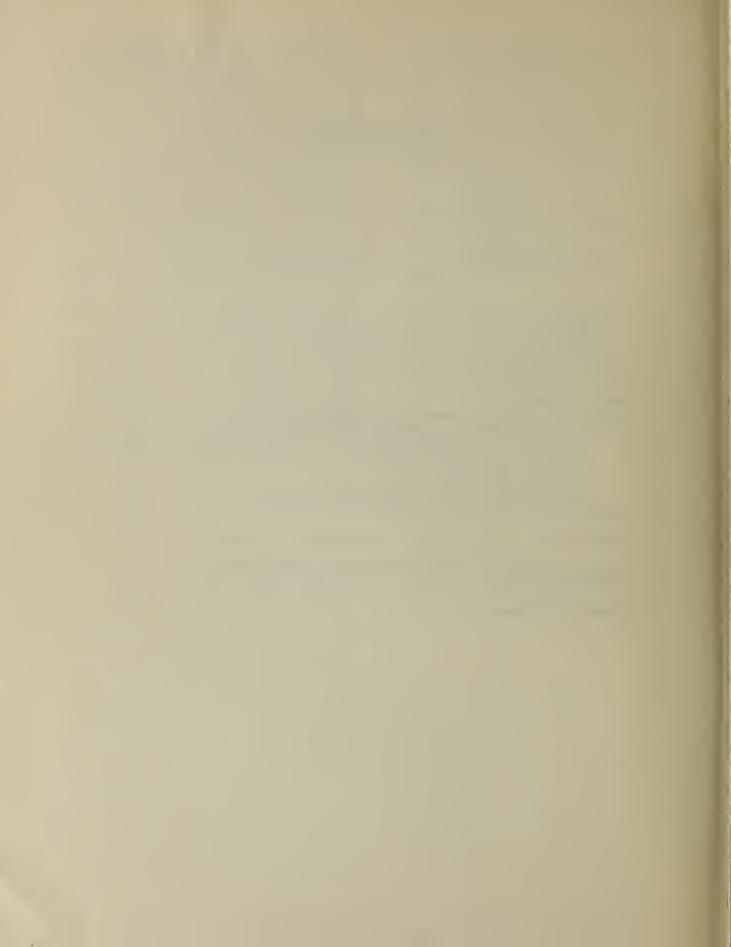
6. It was recognized that in this type of study stated intentions of co-operation do not necessarily coincide with eventual behavior when an examination is offered. However, it seemed reasonable to suppose that these stated intentions would at least be indicative of behavior to be expected in making initial appointments for an examination. Hence, asking about willingness to participate could provide only some tentative information about how people would behave in keeping appointments. Both the National Opinion Research Center and the National Health Survey recognized that it would require more experimentation in situations where examinations were actually being offered and conducted before effective methods could be devised to counteract objections.

\* \* \* \* \*

For the special studies which are carried out at its expense, but are not directly conducted by the National Health Survey, a staff member is assigned primary responsibility for liaison with the research organization doing the study. In addition to keeping closely informed on the study progress and conveying the viewpoint of the National Health Survey in decisions on study methodology, the liaison person edits the final research report for publication in Health Statistics, Series D. For this study, Elijah L. White discharged these responsibilities.

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# ATTITUDES TOWARD CO-OPERATION IN A HEALTH EXAMINATION SURVEY

The following research report was prepared by the National Opinion Research Center, University of Chicago, under a contract with the U.S. National Health Survey. Paul Borsky, Senior Study Director, directed the project and was responsible for the analysis and report presented here. Ann Brunswick served as Assistant Study Director and participated in all phases of the study. The methodology, findings, and conclusions are those of the National Opinion Research Center. The Bureau af the Census co-operated in providing selected health data from the regular NHS survey for the sample of hauseholds to be interviewed by the field staff of NORC.

#### THE RESEARCH PROBLEM

This report is a special methodological study undertaken in preparation for initiating a health examination survey of a nationwide sample of the adult population. The research was carried out by the National Opinion Research Center (NORC) of the University of Chicago as a contract study for the U. S. National Health Survey of the Public Health Service.

#### Objective of This Study

Since an unsatisfactory response rate could nullify the best planned and best conducted sample survey, and prevent any valid generalizations of survey findings, the National Health Survey early recognized the problem of nonresponse as very crucial. Aware that respondent co-operation and nonco-operation involve questions of human motivation and behavior, the Public Health Service contracted with the National Opinion Research Center to investigate the problem. NORC was asked to determine, if possible, the factors which influence willingness to participate in a health examination.

The agreement called for a special questionnaire to be developed and administered to a sample of households previously included in the regular household interview survey of the National Health Survey. The major objective was to obtain increased knowledge of the factors associated with response patterns, leading to working hypotheses and methods designed to minimize problems of response in the projected survey.

#### Other Relevant Research Findings

An indication of the serious magnitude of the nonco-operation problem is revealed by three other recent health examination surveys. Despite intensive persuasion efforts in these surveys, from

30 to 40 percent of the public failed to co-operate in a free health examination. Obviously such large nonparticipation rates represent a potential source of serious bias in the research findings.

A summary of the participation rates achieved in these three local community studies is presented below.

Acceptance of medical examinations in three population surveys

three population surveys							
	Medicall	y examined					
Population surveys	Number of persons	Percent of pop- ulation ini- tially con- tacted					
Hunterdon County, 1952-55 (Commission on Chronic Illness) (8)	846	72					
Baltimore 1953-55 (Commission on Chronic Illness) (5,6)	809	63					
Pittsburgh, 1953-54 (Arthritis Study, U. of Pittsburgh) (1,4)	429	61					

NOTE: Numbers in parentheses refer to references listed at the end of this text.

Unfortunately, none of these studies had built into their basic plans any systematic scheme for determining the reasons for co-operation or non-co-operation. However, Chen and Cobb¹did a post-examination attitude study in the Pittsburgh arthritis survey and were able to gain some insight

into the problem, while other researchers have reported subjective impressions and some sociological characteristics of co-operators which provide additional clues about the factors influencing cooperation. Most of these health examination studies were limited to assessing the health needs of a local community or to the study of particular illnesses or conditions. The only nationwide study was one conducted by NORC2 in 1955 under sponsorship of the Health Information Foundation. lt consisted of a detailed opinion study of attitudes toward health needs, doctors and doctor experiences, medical facilities, and other related health matters. While the report on this study has not yet been published, the NORC was able to utilize its major findings in formulating the hypotheses for the National Health Survey project. Some of the relevant findings of the prior health examination studies are briefly summarized below.

Hochbaum, 3 in reporting on participation in a voluntary chest X-ray program, concluded that there were three sets of conditions that were most important in determining co-operation in a medical examination. The first was described as a psychological state of readiness, including belief in the possibility of oneself contracting the disease. He distinguished between real belief and mere verbal endorsement of the value of diagnostic (X-ray) detection. Real belief involves acceptance of the idea that a person can be sick without knowing it, and a feeling that one can benefit from the early detection of disease. Given the psychological state of readiness or the belief in the potential personal benefit from an examination, two other sets of conditions need to be metthe situational and the environmental. The situational influences include the person's observation of what he suspects may be symptoms of disease, along with the social, medical, and campaign pressures which encourage and reinforce the individual's intention to act. The environmental factors are defined as the physical circumstances which facilitate the appointment process. These include the existence of appropriate facilities and knowledge of their whereabouts, as well as the ease and convenience with which the individual can avail himself of these facilities (time of appointment, distance to be traveled, etc.). Hochbaum concluded that these three sets of conditions cut across the usual demographic stratifications of sex, income, education, et cetera, in influencing decisions to co-operate in health examinations.

Cobb et. al<sup>4</sup> in their study of the prevalence of arthritis and rheumatism in Pittsburgh found that people who do not co-operate in a clinical examination survey usually have had less experience with medical care, rate their own health higher, and less often report the presence of chronic disease. While the nonco-operators do not differ ap-

preciably from those who do co-operate with regard to negative attitudes toward medical personnel and institutions, they more often give "prefer my own doctor" as the principal reason for refusing to participate.

The Baltimore study by the Commission on Chronic Illness <sup>5, 6</sup> indicated that there were five principal motives for co-operation:

- 1. Conformity to a group pattern
- 2. Fear of contracting diseases because of family history or specific symptoms
- Curiosity about the examination procedures
- 4. Hypochondriasis
- Special need for good health to stay on one's job

From largely subjective reports of the Baltimore survey staff, it was also concluded that the following factors were sometimes obstacles to co-operation:

- Fear of the physical, economic, and social consequences of disease
- 2. Religious or cultist beliefs about medicine
- 3. Preference for one's own doctor
- 4. Misinformation or lack of information about the examination
- Lack of confidence in the effectiveness of the examination
- Inconvenience in the time or place of the examination
- 7. Indifference to health matters
- 8. The cost

Of the other studies that were reviewed for their application to our problem, a degree of consistency was reported on only some of the personal and demographic characteristics of those who cooperate and those who refuse to co-operate in health surveys. Some of the more significant observations can be summarized as follows:

- Married people are more likely to cooperate in health examinations than unmarried, <sup>7, 8, 2</sup>
- 2. There are no differences in response on the basis of sex.<sup>1, 4, 5</sup>
- 3. Middle-aged persons are most likely to cooperate, 1,4,9,10 and there is least participation among the older population. 1-5,7,8,11
- 4. There was some divergence in the findings about the role of education. The better educated persons are more likely to co-operate in general health programs; the less educated ones are the least cooperative. 2, 7-9, 12 But participation is poorest among those with a high school level education; participators more often come from the lower and upper educational groups. 5
- 5. There is less participation in the low income group, 2, 5, 8, 9, 11 and more participation among the middle income group, 12

- 6. Proxy-respondents (persons for whom another family member reported) more often agree to accept the examination and follow through on having it,<sup>5</sup> but self-respondents give more adequate (comprehensive) reports of their health status.<sup>8</sup>
- 7. The findings on the role of reported unmet health needs are likewise inconclusive. Nonparticipators indicate an awareness of fewer health needs-in terms of the absence of reported chronic conditions, less illness over a given period, higher rating of their current health, and the degree to which they are taking good care of their health. 1, 4, 5 However, actual unmet health needs are believed to be greatest among low income, low socioeconomic status groups, who are least co-operative in health programs. 11, 12 And the middle socioeconomic status group seems to seek most treatment for illness.12
- 8. The findings with regard to prior experiences with doctors are also inconclusive. Some evidence suggests that participators and nonparticipators cannot be differentiated on the basis of having a regular doctor, and/or having used a doctor over a given period, and/or the length of time since last physical examination.<sup>7, 10</sup>

- Some studies have found considerable—use of nonmedical personnel for treatment of illness, <sup>11</sup> especially among low socioeconomic status groups. <sup>12</sup> Low socioeconomic status groups also report having a regular family doctor less often. <sup>11</sup>
- As noted before, the Pittsburgh study found that participators report more previous medical experiences than nonparticipators.<sup>1</sup>
- 9. Participation in health surveys is greater when others in the respondent's reference group (family, friends, co-workers, etc.) favor participation.<sup>2, 3, 5, 9, 12</sup>

Many factors undoubtedly account for the lack of greater agreement among the findings of the various studies. As noted earlier, they were conducted for different purposes and the findings often were not intended to be applicable to a cross-section of the national population. Questions and their wording differed, as did the response categories and the classification categories for respondents. There was no attempt at co-ordination among the studies. Thus, actually, any degree of agreement has significance. Even where there is disagreement, however, it helps to focus attention on the possible relevant factors influencing decisions to co-operate on a health survey.

#### STUDY DESIGN

## Factors That May Influence Decisions to Co-operate in a Health Examination

After evaluation of available information from previous research, and after intensive discussions with members of the National Health Survey staff, a very detailed list of some 70 factors were compiled for possible inclusion in the questionnaire. These factors were related to areas such as:

- a) Identification of symptoms, knowledge of treatments and cures.
- Exposure to various sources of information in medical matters.
- c) Personal medical history.
- d) Importance of good health.
- e) Satisfaction and concern with personal health status.
- f) Unmet medical needs.
- g) Belief in avoidability and control of illness.
- h) Belief in capability of present medical knowledge to diagnose or treat illness.
- Attitudes toward groups of doctors, clinics and hospitals, and government and public health authorities.
- j) Co-operation with public surveys.
- k) Public spiritedness and social responsibility.

- Condition for acceptance of health examination, and
- m) Demographic characteristics.

## Development and Content of the Questionnaire

From this comprehensive list of factors, a personal interview questionnaire was developed and pretested in the New York City area. It soon became apparent that complete coverage of all of the factors would require a very lengthy interview of approximately two hours. Practical survey experience and budgetary limitations made such a plan impractical, so it was decided to eliminate marginal items and those which could be secured by other means. Appendix II includes a copy of the final questionnaire which actually required about an hour of interviewing time. The following is an outline and summary of the content of the questionnaire.

Questions		Content	
1-8	General	attitudes	toward
	health a	and doctors	
9-13	Belief in t	he possibilit	y of be-
	coming	ill and its	effects
14-20		of specific	

	and need to see doctor
21-26	Satisfaction with medical fa- cilities and services now as compared to 30 years
	ago
27-37	Personal experiences and at- titudes toward doctors
38-39	Sources of information and in- terest in health matters
40-46	General attitudes toward doctors, clinics, and the role of government in health matters
47 - 52	Attitudes toward taking the tests and measurements phase of the survey
53-56	General information about the respondent

Two further observations about the question-naire itself are important. As will be explained below, each respondent interviewed by NORC was first interviewed by the Census on the regular National Health Survey. Consequently, information on recent illness, medical attention, and selected characteristics was available from the initial interviews. This arrangement greatly reduced the length of NORC's interview and avoided duplication of Census questioning.

The second observation involves the kind of questions generally asked. In designing a questionnaire, two types of questions are generally used-the open free-answer and the closed precoded. The open question asks the respondent about a general area of interest without suggesting the possible range of alternative answers. For example, the question, "What sort of things would you ask him (your doctor) about?" does not suggest the kinds of things one might ask a doctor. Such questions are most useful in determining which are the conspicuous responses and also the range of possible answers when this is not known by the researcher in advance. The major disadvantage of open questions is the uncertainty whether failure to mention an answer spontaneously represents chance forgetfulness or actual disagreement with the answer category. In order to determine the full extent of agreement or disagreement with a given question, a precoded question is usually most effective. This type of question clearly states each possible alternative and directly asks therespondent to select the one answer most closely reflecting his views. For example, the first question, "Would you say your own health, in general, is excellent, good, fair, or poor?" clearly poses the range of permissible responses. Fortunately, from the analysis of other NORC health studies and other reports, much was learned about the kinds of alternative answers that might be expected to different questions. This permitted the extensive use of precoded questions in the questionnaire, which not only saved interviewing time, since open questions are more time-consuming, but also provided more complete statistical data for the analysis.

In order to minimize any respondent bias in reported attitudes toward health, health needs. doctors, et cetera, explicit instructions were given to each interviewer regarding the kind of introduction to use. Each respondent upon completion of the original Census interview was given a letter from the Surgeon General thanking him for his co-operation and advising him that he might be called upon in the future to co-operate again in some additional health studies. When the NORC interviewer subsequently called on the respondent, he was instructed to introduce himself as an NORC representative, show his identification card, if necessary, and hand the respondent another official letter from the Surgeon General. This letter stated that NORC was ''doing a special study for the Public Health Service—as part of the U. S. National Health Survey, you—or some member of your household—were interviewed not long ago about your health experience. We are now following up to get some different informationthis time, your opinions on certain health matters." The interviewer was further told to avoid specific description of the kinds of questions involved, and particularly, to avoid mention of the health examination. Reports from interviewers indicate that the suggested approach was effective in practically all instances and that the sequence of questions was begun without further lengthy discussion.

#### Scope of Work and Sample Design

Since the National Health Survey covers all civilian, noninstitutionalized persons in the United States, it would have been desirable to have the study concern itself with co-operation from all segments of the population. However, several factors and decisions combined to limit the scope of the study and its sample design.

For practical reasons, primarily due to the size and composition of the examination team needed, the population to be examined initially was defined as the working-age population, 18 to 65 years of age.

A major consideration in the study design was the need for adequate health data on the sample of persons from whom the extensive data on factors influencing co-operation were to be collected. However, previous experience indicated that each of the two sets of data needed would require relatively lengthy interviewing, which if combined in a single interview would involve an unreasonably long interview.

Still another problem of the study design was whether one could accept the stated intention of

co-operation given in response to a request to come for an examination as a reliable indication of co-operation without administering an actual examination.

With these factors in mind, the study was designed with the following features:

- 1. The attitude questionnaire was to be administered to a sample of persons who had responded to the regular health household interview of the National Health Survey.
- 2. The population to be studied would be restricted to the civilian, noninstitutionalized population of the United States from 18 to 65 years of age.
- 3. To provide a somewhat realistic simulation of a behavioral test of intention to cooperate, the respondents would be asked both on an initial health interview and the attitudinal interview whether they would be willing to come for a health examination.
- 4. To pretest the proposed method of securing examinees for the health examination survey the request to co-operate would be included initially in the context of the regular health interview survey.

While these features of the study design offered some real advantages, they also involved certain limitations. The most important among these were the lack of a probability sample and the consequent limitation in producing national estimates. While it would have been desirable to select a probability sample of adults in the entire United States, it was decided, however, that this exploratory study would not attempt to establish precise national levels of response but would merely serve to identify the more important factors which appear to be influencing co-operation and nonco-operation. Further research would be needed to establish the relative numerical significance of each factor.

For reasons of economy it was decided to carry on the interviewing in those sample areas which were common to the National Health Survey and the National Opinion Research Center's area probability samples. These areas in which the two samples overlapped were mainly urban areas. Since earlier research indicated that the problem of co-operation in rural areas was likely to be significantly different from the problems in urban areas and since there were few cases available for interviewing in rural areas, it was decided to eliminate all rural areas from this initial study.

After the "overlap areas" were identified, it became apparent that there was 100 percent overlap in the large metropolitan areas, a good overlap in the small metropolitan areas, but only a fair coverage of small urban places. To establish some balance in the sample by size of urban area and geographical region, a quota was assigned to each region-size class, which was proportionate

to its true size in the U. S. urban population. Since each weekly sample of the National Health Survey is a representative cross-section in itself, it was decided to base the NORC sample in general on units of an entire week's assignment in overlap areas. Since overlap was best in large metropolitan areas, only 3-4 weeks of Census assignments were required to fill the quota for these areas. In the small metropolitan and small urban areas, almost 8 weeks of assignments were used. In fact, it was not possible to get the desirable number of cases in the small urban places due to the spotty overlap.

The Census completed its initial interview during February and March 1958; NORC reinterviewed its sample approximately one month after the Census interview. From the completed Census questionnaires NORC was given the name, address, and sex of each adult between the ages of 18-65 years, in order to obtain equal numbers of men and women in the NORC sample, and in order to minimize the social influences of any family member on the answers of another, it was decided to select only one adult from each household, alternating the sex of the person selected. Consequently, a man was selected from the first household, a woman from the second, et cetera. Where more than one adult male or female resided at a house, it was possible, in a limited number of cases, for the interviewer to have more than one eligible respondent. In such cases, the names of all eligible persons were listed on the face sheet of the questionnaire and the interviewer chose one of the eligible persons. In no case was a proxy interview permitted.

Because of the nature of the sample and the fact that this was an exploratory study in which there was a search for factors with differential impact and degree of significance, the usual tests of significance were not appropriate and therefore are not presented in this report. In some instances formal tests of significance were applied to provide some guide as to whether the differences might be accounted for by sampling variation if the sample had been a probability design. However, these results have been considered only as additional, not conclusive, evidence of possible significance. The main guide as to which factors appeared most promising was a product of (1) ranking as to how different they were, and (2) the plausibility of associated hypotheses.

It should be noted despite these necessary qualifications, that special tabulations prepared by the National Health Survey indicate that the estimates presented in this report are reasonably representative of the U. S. urban population. Appendix 1 presents data on comparison of this study with the National Health Survey's special tabulations.

#### Response Characteristics of the Sample

In all, 835 interviews were assigned between March 17-April 15, 1958 and 762 were completed—a 91 percent completion rate. As indicated in table A, the area distribution of the completed sample compared favorably in most respects with the ideal regional distribution. Only in the case of other urban places, is the sample seriously deficient.

For the 72 persons assigned to NORC but not interviewed, a great deal of information was available from the Census interview (table B). An analysis of these Census data indicates that NORC's completed interviews were in no way seriously biased. Responses to the Census interview indicate that the co-operation rate may have been overstated by only about 1 percent, but that in all other respects, the respondents and nonrespondents were not significantly different.

Table A. Comparison of assigned and completed interviews with the ideal national sample

U. S. urban and	Proportions* in ideal		pleted erviews	Inter assi	Percent com- pleted	
urbanized areas	national sample	Number	Area dis- tribution	Number Percent		
U. S. Urban						
Total	100.0	762	100.0	835	100.0	91.3
East North Central South West	31.7 28.4 24.8 15.1	237 231 156 138	31.1 30.3 20.5 18.1	261 253 165 156	31.3 30.3 19.8 18.7	90.8 91.3 94.5 88.5
<u>Urbanized</u> areas						
Large metropolitan (over 1,000,000)Small metropolitan (under	42.5	386	50.6	434	52.0	88.9
1,000,000) Other urban places	32.3 25.2	277 99	36.4 13.0	299 102	35.8 12.2	92.6 97.1

<sup>\*</sup>Proportionate to its actual size in the U.S. population.

Table B. Type of NORC nonrespondents and reported intention to co-operate in the health examination

	Tot	al	Answer to Census						
Type of nonrespondent	Normalis and	Domont	Ye	s	No				
	Number	Percent	Number	Percent	Number	Percent			
Total	72	100	39	54	33	46			
No NORC contactRefusal	41 31	100 100	28 11	68 35	13 20	32 65			

<sup>\*</sup>This discussion of response is limited to the sample of households completed by the Bureau of the Census and subsequently assigned to NORC. There was an additional loss of approximately 5 percent of the households in the original Census sample for which no evaluation of bias is possible in the following analysis.

<sup>\*\*</sup>The number indicated in table  $\Lambda$  is 73, but one person was over 65 and incorrectly assigned.

Table C. Percent distribution of NORC respondents and nonrespondents by selected characteristics

Characteristic	Respond- ents	Nonre- spondents	Characteristic	Respond- ents	Nonre- spondents
Number of cases-	762	72			
			Marital status	100	100
Family relationship-	100	100	Married	77	71
Head	59	58	Widowed	6	10
Wife	32	31	Divorced	4	5
Child (18 years			Separated	4 9	4
old or over)	5	9	Never married	9	10
Other	4	2	Income	100	100
Race	100	100	Under \$3,000	19	23
			\$3,000-4,999	27	32
White	86	83	\$5,000-6,999	27	23
Negro Other	14	14 3	\$7,000+	27	22
Other	_	3			
Sex	100	100	Last visit to doc-	100	100
Male	50	44			
Female	50	56	Less than 6 months	50	50
			ago	58	52
Age	100	100	6 months, less than 2 years	21	17
Under 25 years	10	6	2-5 years	11	15
25-34 years	22	22	5+ years	8	14
35-44 years	26	29	Don't know	2	2
45-54 years	21	12			
55-65 years	21	31	Last dental visit	100	100
Education	100	100	Less than 6 months		
Education	100	100	ago	34	22
Grade school	26	30	6 months, less	0.5	
High school	51	55	than 2 years	25	26
College	23	16	2-5 years	22	18
E1	100	100	5 years + Don't know	16 3	31
Employment status	100	100	Don C Know	3	3
Working	63	63	NHS Supplement	100	100
Looking for work	1	-			
Keeping house	31	29	Self-respondent	62	62
SchoolOther	2 3	1 7	Proxy-respondent	38	38
Other	3	/			

In comparing other selected characteristics of the 72 nonrespondents with the 762 NORC respondents, no other important differences were found (table C). It should be noted, however, that the tendency was for nonrespondents more often to be women, somewhat older persons, and those with comparatively less education. These characteristics have frequently been found in other studies of nonresponse.

As shown in the summary table on response (table D), about 71 percent of all Census respond-

ents indicated willingness to co-operate. If a full 71 percent of the 31 refusals had indicated a willingness to come for the examination, the number of "yes" answers would have been 22. Since only 11 actually said "yes," the bias totals 11 answers or only 1.3 percent of the 835 assignments. On this basis, it can be concluded that the NORC sample contains little bias regarding willingness to co-operate in the health examination.

Over-all Indications of Willingness to Co-operate

According to the plans, the National Health Survey was to have the regular Census interviewer introduce the health examination phase of the survey at the end of the household interview and arrange an appointment with all persons who were willing to co-operate. In order to pretest this procedure realistically and also to provide information on the national patterns of co-operativeness from a full U.S. probability sample, a special supplementary question was added to the entire U.S. household survey for the months of February and March 1958. This question was as follows: "As part of the Health Survey, the Public Health Service will provide a free health examination to some of the people we are interviewing. As you would expect, we cannot learn all we need to know about health just by asking questions-for some things we need actual measurements and tests. The examination will involve only one visit to a nearby place. If you are selected for this special free examination and the time and place are convenient, will you be willing to come?... How about (each related adult), do you think he will be willing to come?" \*

Special aspects of this question should be clearly stated. First, the health examination was placed in the context of a supplement to the Health Survey. Second, it was free and required one visit only to a nearby place. Third, the respondent was asked to assume that the time and place were convenient. Fourth, some respondents were asked to answer for themselves, while others were asked to give proxy answers for other related adults who were not home at the time of the interview. With these specific conditions in mind the answers could be considered a first-line indication of intent to co-operate in a Public Health Service sponsored health examination. It should not be confused with actual participation rates, however, since some persons who said they intended to co-operate would fail to do so because they either changed their minds or for other reasons found it difficult to keep an appointment.

At the very end of the NORC interview, after all the general attitudes about health and doctors had been recorded, the respondent was again asked about his belief in the co-operativeness of most people he knew and about his own willingness to accept a health examination.

Question 47 first introduces the question of health examinations and asks about other people, while Question 48 concerns personal co-operativeness. The actual questions were as follows:

- Q. 47. As you might expect, the Public Health Service cannot learn all they need to know about health in the Nation just by asking questions. For some things they need actual measurements and tests. How do you think most people you know will feel about helping on that part of the survey—Will they certainly come, probably come, or probably not come for these measurements and tests?
- Q. 48. If you yourself are asked to come for the tests and measurements part of the survey, will you certainly come, probably come, or probably not come? Why is that?

The interviewers were told not to try to persuade the respondent in any way, but to provide limited factual information about the examination in answer to specific questions.

A combination of answers to the first offer of the health examination by Census and the second offer by NORC provides a measure of the stability of intention to co-operate. Table D summarizes these patterns of co-operation obtained from the results of two requests to participate in a hypothetical health examination survey.

As can be seen from the top line of table D, about 7 out of every 10 persons told the Census interviewer that they would accept the examination, 23 percent said "No," and almost 7 percent were either undecided or, due to an oversight by the Census interviewer, were not asked the supplement question. When NORC offered the examination a month later, a total of 8 out of 10 indicated willingness to accept, of which half said, "Certainly" they would accept, and half were a little less certain and said, "Probably yes." In light of the substantial number of "Don't knows" usually found on opinion surveys, it is noteworthy that only about 2 percent answered "Don't know" to this question.

The degree of stability of stated intention is also unusually high. Three out of every four persons maintained their original answer, 64 percent continuing to say "Yes," and 11 percent saying "No" or "Don't know." About 14 percent shifted from "No" or "Don't know" to "Yes," and only half as many, 7 percent, changed from "Yes" to "No." It is impossible to state the firmness of intent of the remaining 4 percent who were not asked by Census for their views. That 70 percent of this

<sup>\*</sup>An earlier report Co-operation in Health Examination Surveys<sup>1,2</sup> presented the estimates on co-operation based on answers to this supplementary question. For a preliminary report on the findings of this study see Motivations Toward Health Examinations. <sup>14</sup>

Table D. Expressed intent to Census and NORC interviewers on accepting a health examination

		Answers to Census interview								
Expressed intent	To	tal	al Yes		No		Don't know		Not asked	
	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent
Total	762	100.0	539	70.7	171	22.5	24	3.1	28	3.7
Answers to NORC										
Total yes	614	80.6	486	63.8	92	12.1	16	2.1	20	2.6
Certainly yesProbably yes	301 313	39.5 41.1	249 237	32.7 31.1	36 56	4.7 7.4	10 6	1.3	6 14	0.8
Total no or don't know	148	19.4	53	6.9	79	10.4	8	1.0	8	1.1
Probably no Don't know	134 14	17.6 1.8	46 7	6.0 0.9	73 6	9.6 0.8	7 1	0.9	8 -	1.1

later group said "Yes" to NORC, however, indicates that their original attitudes could not be too different from the other respondents who were asked by Census to indicate their intentions. Nevertheless, because any allocation of this group among the initial "Yes" or "No" Census categories would have to be arbitrary and open to challenge, it was decided to exclude this group from the subsequent detailed tables and analysis. Likewise, to keep the attitude groups as clearcut as possible, the 24 cases answering "Don't know" to Census were also kept separate. This left five different intention groups, listed below, with sufficient numbers of respondents for detailed analysis.

As indicated earlier, a statement of intention to co-operate is different from actually following through and coming to an examination. Indication of the relationship between intention or making an appointment and actually being examined must be based on actual field tests where the examinations are offered.

# Profiles of Groups Differing in Willingness to Co-operate

Eleven sets of attitudes, health experiences, and personal variables were utilized in this inquiry to differentiate the various patterns of re-

Answer to Census	Answer to NORC	Number of respondents
Total	_	762
Yes	Certainly yes Probably yes No or don't know Yes No or don't know	249 237 53 92 79

sponse to a request to participate in a health examination survey. These factors were:

- 1. Appraisal of own health status
- 2. Feelings of unmet health needs
- 3. Interest and concern about health matters
- 4. Importance of good health and impact of illness on living activities
- Satisfaction with current health research efforts
- 6. Belief in avoidability and cure of illness
- Reported conditions, doctor visits, and physical examinations
- 8. Confidence in doctor's skill and belief in his concern with patient's welfare
- Attitudes toward clinics and the role of government in health matters
- Selected situational and environmental factors in the arrangements for a health examination
- Demographic variables such as age, education, and income

Response groups used for analysis in this study were defined by the cross-classification of answers given on the original Census question on co-operation and the follow-up inquiry of the NORC study. There were two consistent co-operation groups, two vacillating groups, and one consistent nonco-operation group of respondents. Groups one and two both answered "Yes" to the Census and "Yes" to the NORC. However, NORC divided the co-operators into those who said they would certainly come and those who would probably come. Thus group one consists of those who said they would certainly come and group two designates those who would probably come. Group three includes those who initially said "Yes" to the Census interview but changed to a negative response on the second request. Group four, the second vacillating group, were those who changed from a negative reply to the Census interview to a positive reply on the NORC interview. And finally, group five contains the consistently negative respondents in both interview situations.

The differences in these sets of variables used to characterize the response groups are presented below as a series of composite profiles for each group. Although some of the attitude differences among these groups are small and perhaps not significant by themselves, the fact that so many of them fall in the same pattern bolsters confidence that a larger sample would produce more significant findings.

#### Group 1-Yes-Yes-Certainly Group

The most consistent and certain co-operating group represented all persons who said "Yes" to the Census interview and "Certainly yes" to NORC. Approximately 40 percent of all respondents were

in this category, and an outstanding characteristic of the group was the greater recognition of unmet medical needs and desire for medical attention. They less often described their present health as "excellent" and more often said it was "poor." Accordingly, they generally mentioned having more chronic illness, and more often liked to talk to their doctor about their health. They also evinced greater concern about general health matters by more often thinking about, talking about, and reading and listening to health programs on radio and television.

With regard to current research on causes and cures of disease, they were less satisfied with the amount of effort currently being made and felt more should be done. When questioned about household surveys, such as this study, they usually felt it was "very important" for people to co-operate. More often, they reported the need for "especially good health to do their work well," and in appraising the economic and social impact of an illness on themselves and their family, more often stated the effects would be more serious. Although more of them usually conceded the possibility of becoming seriously ill, they also had greater confidence in early diagnosis and the skill and concern of doctors in making them well. They reported more personal experiences with care at clinics and more often felt that the government should have a larger role in maintaining the health of the Nation. Sex, marital status, and recency of latest doctor visit were equal among all "co-operation" groups, but a higher proportion of younger, nonwhite persons, and veterans turned out to be more consistent co-operators. Contrary to other research findings this study also found greater cooperation from the less educated poorer and self-respondents. Since people with lower incomes have actually been found to have greater unmet health needs, their report of greater willingness to co-operate is consistent with their own appraisal of greater personal benefits to be derived from the health examination. Other studies found, in contradiction, less co-operation among the lower socioeconomic status groups.

#### Group 2—Yes-Yes-Probably Group

The group answering "Yes" to Census, but only "Probably yes" to NORC, generally scored somewhat below the "Certainly yes" group in its basic health attitudes but above the negative and vacillating groups. There was no appreciable difference between the two co-operating groups regarding satisfaction with medical research efforts, belief in early diagnosis, or confidence in doctor skills, but there were consistent tendencies for lesser feelings on other basic attitudes. The "Probably yes" generally regarded their present

health as better, reported fewer chronic conditions, and less often desired to see a doctor about their health. They also showed somewhat less concern and interest in health matters and less often recognized the potential threat of serious illness. They less often reported the need for especially good health and when ill reported less serious consequences. The group was also more often critical of the bedside manner and personal treatment of doctors and less often reported experiences with clinics. With regard to their feelings about the role of government, they were more positive than the negative or vacillating groups but approved less government action than the "Certainly yes" group. They also were more often younger, better educated, white, and had higher incomes than the "Certainly yes" group. It should be repeated that despite these modest differences, this group was more like the "Certainly yes" respondents than the nonco-operators.

A clear indication of their less certain feelings about co-operating was shown by their belief that fewer other people would probably co-operate on the health examination. They more often reported having questions in their minds about the kinds of tests to be included in the examination and wondered why they were selected for the sample. Finally, they indicated more responsiveness to the approval of the examination by their own doctor, the local medical society, or their own spouse.

#### Group 3—Yes-No Group

The vacillating "Yes-No" response class is of particular interest because other indications seem to imply that success in gaining co-operation really depends on getting an initial "Yes" to the request for examination. There were 53 persons who shifted from "Yes" to "No." Their attitudes as revealed by our questions tended to represent viewpoints at the extremes. They reported less chronic illness than the consistent nonco-operators and seldom desired to talk to a doctor about their health. With regard to satisfaction with current research efforts, they were more like the co-operators and felt more could be done, but, as far as this study was concerned, few of them felt it was important to co-operate in such studies. They felt less need for especially good health to do their work well and reported the least impact when illness struck. Their interest and concern about health matters was the lowest, although their educational background was the highest. They were least likely to feel that the way people lived made a difference in how healthy they were and they more often recommended self-diagnosis for illness. Generally, they had less confidence in doctors' abilities to cure diseases and were least satisfied with doctors' concern and manner in patient care. It was interesting to note that these critical attitudes toward doctors were not based on reported experiences but on the result of impressions of doctors in general. This "Yes-No" group also felt that the role of government in health matters should be restricted. Moreover, they tended to be concentrated at the two extremes with respect to age, income, and education.

Only 21 percent of the "Yes-No" group felt others would co-operate, and when asked why they themselves probably would not come for the examination, they gave such evasive reasons as, "I'm too busy," and "It depends on when and where they are given." Other reasons indicated a feeling that they personally felt little need for the examination. that their participation was not essential to the success of the survey, and that they preferred their own doctors for examination. They revealed little awareness of what might be included in the examination, and expressed few specific objections to the procedures they anticipated. Like the "No-No" group, they indicated potential persuasion by their own doctor or spouse and that the least time-consuming examination procedures would be most acceptable to them.

#### Group 4-No-Yes Group

The shift from 'No" to "Yes" is believed to be partially an artifact of the Census interviewing procedures. NORC always interviewed the sample person directly, but Census, in accordance with the standard practice of the National Health Survey, accepted proxy responses from members of the family. Proxy respondents proved to be more cautious in saying "Yes" for others than those who responded for themselves. The 'No-Yes' group was the group with the highest concentration of proxy respondents. While other groups had about one-third proxy respondents, the 'No-Yes' group had 54 percent proxies. A separate analysis of these proxy respondents revealed that they considered themselves to be in very good health, and believed in regular doctor visits. Less than half of these proxy persons reported that they had seen a doctor in the past year in comparison with the average of almost two thirds for all other respondents. It is reasonable to assume, therefore, that the offer of an examination came at the appropriate time to induce a "Yes" response to NORC. It is also reasonable to assume that if they had been asked directly by Census in the initial interview, they would probably have said "Yes" at that time, and would not have been included in the vacillator group.

With respect to basic attitudes the whole ''No-Yes'' group more nearly resembles the consistent co-operators. They reported less chronic illness

and better current health, but more often felt the need for additional doctor consultation than the nonco-operators. They were least satisfied with current medical research and almost all of them felt co-operation on this study was important. There was high interest and concern about health matters and when illness strikes, the impact was almost as serious as that reported by the consistent co-operators. The "No-Yes" group felt less threatened by the possibility of becoming seriously ill, but they strongly believed that the way you live is important to your health, and more often believed in regular medical checkups. They were most satisfied and confident in their own doctor's skill and manner but were somewhat critical of doctors in general. As a group, they had had little experience with clinics and more often felt that doctors engaged in group practice were not as good as private doctors. Because so many were proxy respondents, it was understandable that they were mostly men who were at work when the Census interviewer called. It is also interesting to note that there were more nonveterans in this

A clue to their own co-operative intentions is shown by their belief in three out of four cases that other persons would probably co-operate on the health examination. The reason most often given for co-operating was "desiring to help the government and personal benefit from the examination." Over three fourths had questions about the kinds of tests to be given and why they were chosen in the sample. In general, they themselves had a good idea of the tests and more of them wanted their own specific conditions checked. Very few of them had any special dislikes of particular tests and more than half of them indicated that approval of their doctor or spouse might influence their decisions.

#### Group 5-No-No Group

The consistent nonco-operators, i.e., the group saying ''No'' to both Census and NORC, was largely composed of persons who expressed contrary views to the co-operating groups. More of them were well satisfied with the state of their current health, reported fewer chronic illness conditions, expressed satisfaction with current research efforts, and considered it less important to assist studies such as this by co-operating in the study. Fewer of them also expressed any desire to see a doctor and fewer considered "especially good health" as essential to their work. Likewise, they more often felt that their own illness would not be a heavy financial problem or burden to their families. The consistent noncooperators as a class were also less interested in health matters in their reading, listening to the radio, and watching television, and fewer of them considered it likely that they would encounter illness in the next year. When symptoms appeared the group was more complacent and fewer of them claimed they would consult a doctor immediately. More of them had reservations about doctors' ability to cure illness, even though they agreed with the co-operators that doctors now know more, and have better medicines, than 30 years ago. They more often felt the role of government in health should be restricted and, as a whole, were older, had higher family incomes, and more often were nonveterans.

A good reflection of their negative attitudes was also afforded by the projective question about their belief in the co-operativeness of other people, in which less than 40 percent felt others would come for the examination. When asked why they themselves would not come, they indicated their belief that they would not gain any personal benefits from the examination, and that they had other medical facilities readily available when needed. They reported little knowledge of the tests and that they had few objections to any specific procedures, but showed some general hostility to free clinics. The approval of the examination by their own doctor or spouse was reported as a possible influence on their decision, and a procedure requiring the least time and effort was also stated to have the best chance of overcoming their reluctance to co-operate.

#### Conclusions

A study of a national sample of the adult urban population indicates that the following types of people are more willing to co-operate in a free health examination: the nonwhite, younger, and middle-aged, veterans, and lower income groups. In addition, people are more apt to commit themselves to co-operate in a health examination than to commit other members of their family.

Four basic sets of attitudes and beliefs were demonstrated to be even more closely related to examination behavior than personal characteristics. These were:

- 1. Underlying attitudes and beliefs on health.
- 2. Beliefs as to the potential personal benefits to be derived from the health examination.
- 3. Beliefs as to the importance of furthering medical research.
- 4. Beliefs as to the reasonableness and appropriateness of the examination procedures and arrangements.

Each of these attitudes and beliefs is described briefly below:

1. Underlying Attitudes and Beliefs on Health

Underlying the degree of receptivity to a free medical examination are five general health attitudes and beliefs. Co-operators more often reported agreement with these attitudes and beliefs, while nonco-operators generally reported contrary beliefs.

- a. The importance of good personal health as an objective in life.—Co-operators more often believed that especially good health was essential to do one's work well, and, therefore, strived to maintain good health. Likewise, illness more often presented them with serious social and economic problems.
- b. Interest and concern in health matters.—
  Co-operators more often believed that
  the way one lives has a direct influence
  on one's health. They were also more
  interested in discussing, reading, and
  listening to educational health programs.
- c. Belief of personal susceptibility to illness.—Co-operators more often admitted the likelihood that they would be sick in bed during the next year and granted the possibility that they could become seriously ill in the next few years.
- d. Belief of the need for professional diagnosis and care of illness.—Co-operators showed less confidence in self-diagnosis and more often felt they could become sick without being immediately aware of it. They also more often felt that they should see a doctor right away for professional diagnosis and treatment upon appearance of a symptom.
- e. Belief in the ability of modern medicine to cure or help illness.—Co-operators more often believed that doctors have the know-how and facilities to cure or help relieve illness and disease.

2. Beliefs as to the Potential Personal Benefits to be Derived From the Health Examination

Co-operators usually stated that they expected to benefit directly from the results of the examination. Underlying this strong personal motivation were the following three beliefs:

- a. Dissatisfaction with personal efforts to care for health.—Co-operators more often felt that they could do more to take better care of their health.
- b. Recognition of some personally unmet health needs which are susceptible to medical care.—Co-operators more often reported a desire to talk to their

- doctors about their health, and more often admitted having felt the need to see a doctor without actually doing so for a variety of reasons.
- c. Confidence in the skill and personal approach of their own doctor and doctors generally.—Based on their personal experiences and on what they have heard or read, co-operators generally were more confident in their own doctors and in doctors generally. Nonco-operators reported more criticisms of doctors and more often indicated a distrust of strange doctors by limiting their willingness to come for the examination to the case where their own doctor gives it.

## 3. Beliefs as to the Importance of Furthering Medical Research

The most frequent reason given for agreeing to co-operate on the health examination was a desire to help the government in its research efforts. Underlying this motive were the following three different attitudes and beliefs:

- a. Recognition of the need for additional medical research efforts.—Co-operators were least satisfied with current efforts at finding causes and cures of disease. In addition, most people believed that research efforts would eventually succeed in discovering new cures for disease.
- b. Recognition of the responsibility of government in maintaining the Nation's health.—Co-operators more often approved of government taking an active role in health research and in programs to promote the Nation's health.
- c. Recognition of personal responsibility in assisting medical research programs.—Co-operators more often felt it was very important for them personally to co-operate in health research programs. Nonco-operators more often questioned whether their co-operation was essential to the success of the program.
- 4. Beliefs as to the Reasonableness and Appropriateness of the Examination Procedures and Arrangements

This is the last of the major conclusions and involves the convenience and approval of the arrangements for the examination.

a. Items of convenience.—These include such considerations as: (1) Travel time, (2) duration of examination, (3) time of appointment, (4) place of examination, (5) mode of transportation pro-

vided, (6) type of doctors giving examination, and (7) kind of tests and procedures used. The co-operator must believe the above items are reasonable and he also must be able to fit them into his other obligations. As expected, arrangements which make the least demands upon a person are likely to produce the greatest co-operation.

b. Desire to behave in a socially approved

manner.—Co-operators more often indicated that approval of the health examination by their spouse, friends, doctors, or other prestige groups influenced their decisions to participate in the examination. Nonco-operators were more indifferent to the approval of the examination by their peer and prestige groups.

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#### **DETAILED TABLES**

Tabular data classified by the five major co-operation groups are presented for each of the questionnaire items. The order of grouping the tables does not follow the order in which the questions were asked. However, the number in parentheses after each topic in the tables refers to the position and context of the items on the questionnaire presented in Appendix II.

It should be noted that the totals for the five co-operation groups do not add to the total for all persons.

The total contains 16 persons who answered "no" and 36 who answered "yes" to the NORC interviewers, but were not asked the supplemental question or answered "don't know" to the original interviewers. Answers for these persons, while not shown separately, may be derived by subtracting the subtotals for five co-operation groups from the over-all totals.

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Table 1. Selected indices of appraisal of the health status by co-operation groups, NORC, 1958

Indices of health status		Cen	ısus: Ye	Census: No		
			NORC:	NORC:		
	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
Number of respondents	762	249	237	53	92	79
		Perce	nt dist	ributio	n	
A. Self rating of own health: (1)	100	100	100	100	100	100
Excellent	31 45 20 4	28 42 21 9	29 49 20 2	40 41 17 2	33 52 15 -	33 38 27 2
B. Number of chronic conditions: (19)	100	100	100	100	100	100
None	46 28 26	39 26 35	45 30 25	53 30 17	62 23 15	42 38 20
C. Symptoms reported during past year or so: (19)	*	*	*	*	*	*
Coughing for 5 or 6 days	23 17 26 17 7 12 40 4 2 9	26 16 27 21 8 14 39 5 2 12	25 18 26 16 6 11 40 3 2 10 9	26 19 19 13 6 9 43 2 2 4	18 17 25 15 5 6 40 5 2 6 4	14 15 27 13 9 11 33 2 2 2 8 9
Number of symptoms: (19)	100	100	100	100	100	100
None	25 30 21 18 6	20 31 23 18 8	26 29 22 17 6	32 24 21 15 8	26 37 16 19 2	35 23 19 20 3

<sup>\*</sup>Percentages not additive--represents percent reporting each type of symptom.

Table 2. Indices of unmet health needs by co-operation groups, NORC, 1958

		Cen	Census: No			
Indices of unmet health needs	A11		NORC:		N	ORC:
	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
Number of respondents	762	249	237	53	92	79
		Perce	nt dist	ributio	n	
A. Type of health care by most people: (2)	100	100	100	100	100	100
Take best care Not take best care Don't know	23 74 3	19 78 3	22 76 2	36 58 6	23 74 3	33 59 8
B. Type of health care by respondent: (3)	100	100	100	100	100	100
Take best care Not take best care Don't know	46 53 1	49 51 -	43 56 1	43 55 2	46 53 1	56 40 4
C. Like to consult own doctor free of charge: (5)	100	100	100	100	100	100
Desire to talk No desire to talk Don't know	40 59 1	53 47 -	43 56 1	28 72 -	32 67 1	16 83 1
D. Did you feel need to see doctor in last year but didn't? (7)	100	100	100	100	100	100
YesNo	25 75	32 68	28 72	13 87	22 78	11 89
E. Did others suggest you see doctor but you didn't? (30)	100	100	100	100	100	100
YesNo	20 80	20 80	23 77	17 83	20 80	91
F. Argue with family members about seeing doctor? (31)	100	100	100	100	100	100
No family  Never argue  Argue about doctor:  Spouse wants me to go  Children want me to go  Other relatives want me to go  I want spouse to go  I want children to go  I want other relatives to go	5 65 30 7 1 1 18 3	6 63 31 4 1 16 3	5 63 32 8 1 2 18 4	10 67 23 10 - 2 13 - 4	1 65 34 5 1 - 24 3	73 19 4  1 15

 $<sup>^{1}\</sup>mathrm{Types}$  of arguments add to more than total because more than one argument may be reported by each person.

Table 3. Interest and concern about the health by co-operation groups, NORC, 1958

		Census: Yes			Cens	us: No
Interest and concern	A11		NORC:		NORC:	
	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
Number of respondents	762	249	237	53	92	79
		Perc	ent dis	tributi	on	
A. Do you think about own health: (6)	100	100	100	100	100	100
Fairly oftenOnce in a whileHardly ever	40 36 24	49 33 18	41 36 23	26 40 34	36 39 25	25 34 41
B. Do you talk about own health: (6)	100	100	100	100	100	100
Fairly oftenOnce in a whileHardly ever	15 32 53	19 31 50	13 36 51	11 32 57	16 30 54	9 25 66
C. Extent of reading about health matters: (38)	100	100	100	100	100	100
OftenOnce in a while	33 43 24	34 41 25	30 49 21	40 23 37	34 48 18	30 42 28
Why? (if hardly ever) Don't read papers, etcSkip health items	13 11	15 10	11 10	19 18	7 11	18 10
D. Extent of listening to radio or television health programs: (39)	100	100	100	100	100	100
Often Once in a while Hardly ever	23 43 34	29 44 27	18 48 34	19 29 52	26 47 27	19 34 47
Why? (if hardly ever) Avoid all programs Avoid health programs None available or other	11 19 4	12 13 2	14 17 3	8 36 8	9 16 2	13 29 5

Table 4. Importance of kind of health on living activities by co-operation groups, NORC, 1958

		Cen	sus: Ye	Census: No		
Importance of kind of health	A11		NORC:	NORC:		
·	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
Number of respondents	762	249	237	53	92	79
		Perce	nt dist	ributio	n	
A. Kind of health required by own work: (10)	100	100	100	100	100	100
Especially goodFairly good Not so good Don't know	32 49 18 1	36 47 17	31 53 16	17 47 34 2	33 49 18	30 49 18 3
B. Difficulty in payment of large medical bill: (13)	100	100	100	100	100	100
Great Moderate Hardly any	45 31 24	56 26 18	46 33 21	30 32 38	34 32 34	28 32 40
C. Loss of income if sick: (11)	100	100	100	100	100	100
All	22 16 26 35 1	27 14 21 36 2	18 18 25 38 1	6 9 49 32 4	7 14 50 28 1	6 10 46 35 3
D. Impact of illness on job (other than income loss): (11)	100	100	100	100	100	100
Great deal SomeNot very seriousNo job	7 12 46 35	10 10 44 36	6 14 42 38	6 9 53 32	7 14 51 28	6 10 49 35
E. Impact of illness on family: (12)	100	100	100	100	100	100
Great deal Some Not much No family	12 23 57 8	14 24 53 9	13 29 50 8	19 6 66 9	8 24 64 4	10 17 63 10

Table 5. Satisfaction with current research on health matters by co-operation groups, NORC, 1958

		Cens	us: Yes	Census: No		
Satisfaction with current research	A11		NORC:		N	ORC:
	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
Number of respondents	762	249	237	53	92	79
		Perc	ent dis	tributi	.on	
A. Satisfaction with research on causes of disease: (25)	100	100	100	100	100	100
Enough being done Not enough being done Don't know	68 28 4	66 30 4	70 26 4	64 30 6	61 36 3	84 11 5
B. Satisfaction with research on cures of disease: (26)	100	100	100	100	100	100
Enough being done Not enough being done Don't know	67 29 4	66 31 3	69 26 5	66 28 6	55 41 4	77 18 5
C. Importance of co-operation on health opinion research: (54)	100	100	100	100	100	100
Very important Fairly important Hardly important Don't know	70 25 3 2	90 9 1 -	65 33 1 1	51 36 8 5	66 32 2 -	42 40 10 8

Table 6. Attitudes on the recognition, avoidability, and cure of illness by co-operation groups, NORC, 1958

		Cen	sus: Ye	s	Census: No		
Recognition, avoidability, and cure of illness	A11		NORC:		NOR	C:	
,,,	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK	
Number of respondents	762	249	237	53	92	79	
. Knowledge of symptoms of:		Perc	en <b>t di</b> s	tributi	on		
Poliomyelitis (15) Number mentioned	100	100	100	100	100	100	
None	29	29	27	36	33	33	
1	] . 13	16	11	9	14	17	
2	23	20	28	26	20	16	
3+	35	35	34	29	33	34	
Tuberculosis (16) Number mentioned	100	100	100	100	100	100	
None	26	23	27	30	23	25	
1	23	23	29	23	13	25	
2	27	27	24	30	37	25	
3+	24	29	20	17	27	23	
Diabetes (17)							
Number mentioned	100	100	100	100	100	100	
None	50	47	50	55	47	63	
1	17	18	18	15	18	13	
2	17	19	16	21	20	14	
3+	16	. 16	16	9	15	10	
Persons who feel immediate recognition possible		مفد			*		
for specific illnesses: (14) Arthritis	* 83	* 85	* 81	75	84	84	
Asthma	77	78	75	79	79	77	
Poliomyelitis	60	56	60	62	66	53	
Heart trouble	35	40	36	21	33	34	
Liver trouble	33	34	32	26	33	39	
Diabetes	19	22	16	11	20	23	
Tuberculosis	18	21	17	8	24	18	
Cancer	11	12	9	11	11	10	
Summary of above immediately recognizable illnesses: (14)	100	100	100	100	100	100	
None	5	4	5	6	4	11	
1-2	25	24	28	30	22	18	
3	28	28	24	30	26	27	
4-5	31	31	34	32	36	29	
6-8	11	13	9	2	12	15	
Cumulative number (14)							
None	5	4	5	6	4	11	
2 or less	30	28	33	36	26	29	
3 or less5 or less	57	56	57	66	52	56	
5 or less	89 100	87	91 100	98 100	88 100	85 100	
0.00 1000000000000000000000000000000000		100	100	100		100	

<sup>\*</sup>Percentages are nonadditive, but represent the percentage who can recognize each illness right away.

Table 6. Attitudes on the recognition, avoidability, and cure of illness by co-operation groups, NORC, 1958—Continued

		Cen	sus: Ye	s	Census	: No
Recognition, avoidability, and cure of illness	A11		NORC:		NORC:	
	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
		Perce	nt dist	ributio	n	
C. Effects of way you live on health: (4)	100	100	100	100	100	100
Great deal Some Hardly any Don't know	56 26 17 1	58 23 19	51 30 18 1	47 23 26 4	65 20 14 1	58 24 13 5
D. Time likely to be sick in bed next year: (8)	100	100	100	100	100	100
A week or more 3-4 days None	30 15 55	36 13 51	27 19 54	25 15 60	30 10 60	23 13 64
E. Likelihood of getting tuberculosis, heart disease, or arthritis in 5-10 years: (9)	100	100	100	100	100	100
Very likely Fairly likely Hardly likely Don't know	7 18 67 8	9 21 63 7	7 19 66 8	2 11 70 17	3 21 71 5	6 10 66 18
F. Chance of healthier life today compared with 30 years ago: (21)	100	100	100	100	100	100
Much better	82 9 3 4 2	81 8 4 5 2	83 9 2 4 2	79 7 4 4 6	76 17 2 1 4	84 5 5 4 2
G. Doctors know more today than 30 years ago? (23)-	100	100	100	100	100	100
A lot more	90 8 1 1	92 7 - 1	91 8 1 -	83 13 2 2	95 5 - -	87 5 3 5
H. Are today's medicines better than 30 years ago? (24)	100	100	100	100	100	100
Much better	93 4 1 2	93 4 1 2	92 5 ** 3	87 7 2 4	98 2 - -	90 3 1 6
I. Belief in doctors' ability to cure or help selected illnesses: (20)  Cure or help allergy	88	87	89	88	88	82
Cure allergy	17 71	16 71	15 74	11 77	26 62	16 66
Cure or help arthritis or rheumatism	93	94	95	89	96	86
Cure arthritis or rheumatism Help arthritis or rheumatism	4 89	4 90	3 92	8 81	7 89	6 80

<sup>\*\*</sup>Less than 1 percent.

Table 6. Attitudes on the recognition, avoidability, and cure of illness by co-operation groups, NORC, 1958—Continued

		Cen	Census: No				
Recognition, avoidability, and cure of illness	All persons		NORC:	NORC:			
	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-D	
I.Belief in doctors' ability to cure or help selected illnesses: (20)—Continued	Percent distribution						
Cure or help asthma	88	91	88	83	93	7	
Cure asthma	10 78	9 82	8 80	23 60	16 77	(	
Cure or help diabetes	91	91	92	83	91		
Cure diabetes	15 76	18 73	11 81	17 66	14 77		
Cure or help gallbladder	85	86	87	81	78		
Cure gallbladder Help gallbladder	62 23	64 22	62 25	57 24	62 16		
Cure or help heart	93	94	93	87	96		
Cure heart	13 80	13 81	10 83	17 70	22 74		
Cure or help blood pressure	94	94	98	89	94		
Cure blood pressure	31 63	30 64	28 70	38 51	45 49		
Cure or help kidney	87	87	90	81	92		
Cure kidney Help kidney	46 41	44 43	46 44	43 38	54 38		
Cure or help piles	94	92	98	89	94		
Cure piles	76 18	75 17	75 23	76 13	84 10		
Cure or help sinus	89	92	90	85	90		
Cure sinus	23 66	25 67	21 69	11 74	28 62		
Cure or help varicose veins	84	86	85	79	81		
Cure varicose veins Help varicose veins	37 47	36 50	35 50	34 45	42 39		
Summary of illnesses doctors can cure or help: (20)	100	100	100	100	100	1	
6 or less 7-8 9+	5 9 86	5 8 87	2 10 88	13 8 79	4 7 89		

Table 6. Attitudes on the recognition, avoidability, and cure of illness by co-operation groups, NORC, 1958--Continued

		Cer	sus: Ye	S	Census	: No
Recognition, avoidability, and cure of illness	A11		NORC:		NOR	.C:
Recognition, avoidability, and cure of lithess	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
	Percent distribution					
J. Conditions which require immediate doctor visit: (18)	*	*	*	*	*	*
Coughing 5-6 days	65 61 76 81 95 80 27 80 62 90 80	67 62 78 79 95 86 32 82 64 92 81	66 63 78 85 97 78 27 84 60 92 82	66 49 60 74 85 60 15 74 55 83	65 58 72 80 96 85 23 74 70 83 76	57 63 74 74 90 76 28 72 53 87
Cumulative Number of conditions: (18)  None 6 or less 7 or less 8 or less 9 or less 10 or less	1 22 38 55 73 88 100	** 18 34 52 72 87 100	- 21 35 54 72 90 100	- 40 64 74 87 89 100	29 38 56 72 90 100	5 27 41 59 75 85 100

<sup>\*</sup>Percentages are nonadditive, but represent the percentage who recognize the need to visit a physician.
\*\*Less than 1 percent.

Table 7. Chronic conditions, doctor visits, and physical checkups by co-operation groups, NORC, 1958

Number of respondents   762   249   237   53   92   75			Cen	sus: Ye	Census	Census: No	
Number of respondents		A11		NORC:			C:
A. Reported chronic conditions in past year or so: (19)	and physical checkups	persons			No-DK	Yes	No-DK
A. Reported chronic conditions in past year or so: (19)	Number of respondents	762	249	237	53	92	79
So: (19)			Perce	nt dist	ributio	on	
Allergy	A. Reported chronic conditions in past year or so: (19)	*	*	*	*	*	*
Asthma		13	12	11	15	13	16
Diabetes					13		15
Gallbladder or liver trouble				_	-	2	1
Heart trouble				_	- 2	-	1
High blood pressure	Heart trouble		_			_	1
Kidney trouble	High blood pressure			_			13
Piles	Kidney trouble		7	6	4		1
Varicose veins	Piles		8				9
None	Sinus trouble						18
B. Proportion reporting doctor visit in past year or so for chronic conditions: (19)	Varicose veins			_			9
or so for chronic conditions: (19)	None	46	44	44	33	49	40
or so for chronic conditions: (19)	B. Proportion reporting doctor visit in past year						
Arthritis or rheumatism	or so for chronic conditions: (19)	*	*	*	*	*	*
Asthma	Allergy						54
Diabetes							
Gallbladder or liver trouble					_	100	
Heart trouble					100	100	100
High blood pressure	Heart trouble						100
Kidney trouble	High blood pressure	89	96	86	80	100	90
Sinus trouble	Kidney trouble					-	-
Varicose veins							86
Summary of persons with above conditions who saw doctor: (19)	Sinus trouble						64
saw doctor: (19)	Varicose veins	47	47	38	67	62	14
saw doctor: (19)	Summary of persons with above conditions who						
For some conditions 16 17 14 28 17 14		100	100	100	100	100	100
For some conditions 16 17 14 28 17 14	For all conditions	5/		57	1.1	/,0	5.4
101 Some Conditions	For some conditions						14
For no conditions 30   28   29   28   34   37	For no conditions	30	28	29	28	34	32

<sup>\*</sup>Percentages are nonadditive.

Table 7. Chronic conditions, doctor visits, and physical checkups by co-operation groups, NORC, 1958--Continued

		Cen	sus: Ye	s	Censu	s: No
Chronic conditions, doctor visits,	All		NORC:		NOR	C:
and physical checkups	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
C. Last doctor visit by number of reported chronic illnesses **		Perce	n			
Total Under 3 months	(762) 42	(249) 46	(237) 42	(53)	(92) 36	(79) 43
4-11 months 12+ months Total	23 35	21 33	24 34	30 32	23 41	19 38
N=	(346)	(98)	(106)	(28)	(57)	(33)
None Under 3 months4-11 months	32 24	31 25	32 26	32 32	30 25	36 15
12+ months Total	100	100	100	36 100	45 100	100
N= 1	(216) 47	(64) 41	(71) 48	(16) 44	(21) 48	(30)
12+ months Total	24 29 100	28 31 100	18 34 100	31 25 100	19 33 100	27 17 100
N= 2+ Under 3 months	(200)	(87) 70	(60) 55	(9) 56	(14) 64	(16) 56
4-11 months	18 20	12 18	25 20	22 22	22 14	13 31
Total	100	100	100	100	100	100
D. Ever had complete physical examination? (27)	100	100	100	100	100	100
NoYes	91	9 91	12 88	92	8 92	11 89
How often do you have complete examination?  Every year or two	100	100	100 26	100 28	100 39	100 34
Just occasionallyNever	58	37 54 9	62 12	64	53 8	55 11
Last time you had complete examination:	100	100	100	100	100	100
Less than 1 year	37 17 14	40 18 14	33 17 12	40 11 15	44 17 16	34 17 10
3 years less than 5 5 years or more Never	10 13 9	8 11 9	10 16 12	11 15 8	10 5 8	9 19 11
E. Ever had checkup when not ill? (28)	100	100	100	100	100	100
NoYes	60 40	63 37	63 37	58 42	48 52	67 33
Reasons for getting checkup:  Just for checkup  Job, school requirements	17 16	17 15	14 15	21 15	25 16	10 15
Felt rundownSomebody suggested it	1 2	1 2	2 2	2 2	2 7	-
Because of my age, weightOther reasons	3	1	3	2	2 -	5

<sup>\*\*</sup>Source: Data from Household Interview Survey.

Table 8. Confidence in doctors' skill and belief in his concern with patient's welfare by co-operation groups, NORC, 1958

	<del></del>	Cen	sus: Ye	s	Censu	s: No
Confidence in doctors' skill and	A11		NORC:		NOR	.C:
concern with patients welfare	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
Number of respondents	762	249	237	53	92	79
		Perc	ent dis	tributi	on	
A. Do you have a doctor or clinic you usually go to? (32)	100	100	100	100	100	100
YesNo	88 12	89 11	88 12	87 13	89 11	86 14
Kind of medical service usually consulted: (32)-	100	100	100	100	100	100
Private medical doctor	75 5 6 2 12	76 5 7 1	72 7 6 3 12	74 4 7 2 13	80 2 7 - 11	76 4 4 2 14
B. Practitioners used by family in past year: (33)-	*	*	*	*	*	*
Medical doctor Osteopath Dentist, optometrist I Chiropractor Faith healer I	89 7 10 10 1	91 9 11 13 1	88 9 11 8 -	87 4 16 8	88 3 4 8 1	86 7 7 5
C. Interest in patients by doctors today compared with 30 years ago: (22)	100	100	100	100	100	100
Much more Little more Much less Little less Some Don't know	34 14 14 20 15 3	41 14 12 17 14 2	31 13 14 23 17 2	21 13 15 27 13 11	34 18 12 19 12 5	30 15 19 17 11 8
D. Comparison of own doctor with others: (36)	100	100	100	100	100	100
Much better	24 21 46 1 8	26 21 46 ** 7	20 22 51 ** 7	17 23 50 -	35 26 31 - 8	25 13 44 1 17
E. Satisfaction with treatment by doctors in past 5 years: (37)	100	100	100	100	100	100
Entirely satisfied Some things not Don't know	81 18 1	80 19 1	83 16 1	81 19 -	83 17 -	86 14 -
F. Have you or anyone you know, ever had any bad experience with a doctor which made you lose some confidence in doctors generally? (35)	100	100	100	100	100	100
NoYes	78 22	74 26	81 19	89 11	79 21	78 22
Yes	8 5 5 4	10 3 7 6	8 4 3 4	5 4 · 2	7 6 7	8 12 2

Table 8. Confidence in doctors' skill and belief in his concern with patient's welfare by co-operation groups, NORC, 1958--Continued

	<b>T</b>					
		Cen	sus: Ye	:S	Census	: No
Confidence in doctors' skill and	A11		NORC:		NOR	.c:
concern with patients welfare	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
T. Hara was a second and bad and bad		Perce	nt dist	ributio	n	
F. Have you or anyone you know, ever had any bad experience with a doctor, etc.—Continued How long ago?						
Less than 1 year	4	4	3	2	1	5
1-3 years3-10 years	5 7	6 10	6 4	3 4	5 8	3 5
10+ years	6	6	6	2	7	9
G. Why do some people say they are afraid of seeing a doctor? (34)	*	*	*	*	*	*
May have incurable disease	71	67	73	77	74	70
Pain of treatment	13	11	15	14	14	11
Expense	11	11	11	10	15	10
Kind of treatment requiredLack of sympathy from doctor	11 7	10	11 8	8 4	13 10	11 4
Doctor may want to change habits	2	2	2	2	4	1
Silly to be afraid	6	8	3	4	9	6
H. Proportions ever using any of these reasons for						
not seeing a doctor: (29)	*	<u>*</u>	*	*	*	*
Something always seems to come up	34	33	37	30	35	27
Doctor's office is too far away	5 15	5 14	6 16	8 17	5 15	4 15
If feel all right, are all right	65	60	67	64	64	73
Not bother unless sick	43	46	45	40	36	47
Don't think doctors can help	6	4	6	11	1	8
Don't learn much from checkups	7	7	8	8	3	4
Get better myself if I'm sickPerson knows health better	12 21	9 20	12 20	19 15	12 28	14 25
Disease is punishment for sins	5	7	20	6	20	8
Regular examination makes worry	15	14	14	17	13	24
Don't like doctors	11	11	12	8	13	11
Doctor might hurt me	7	6	7	11	7	6
Doctor might try to change my ways Doctor might want to put me in a hospital	6 8	10	5 10	2 6	7 9	2 5
Don't want family to know I'm sick	5	6	4	2	2	6
Not spend money if OK	41	44	41	49	39	38
Doctor may suggest expensive treatment	9	10	9	4	10	5
I. Criticisms of doctors in general: (40)	*	*	*	*	*	*
Don't give chance to tell trouble	41	45	40	55	38	39
Not enough personal interestNot enough free time for needy	55	58 54	57 57	55 62	50 49	46 52
Not tell you things ought to know	42	45	46	42	30	47
Give better care to regular patients	47	49	46	43	45	48
Not set appointments right	55	56	55	62	41	53
Give unnecessary medicine	30	31	31	38	18	30
Don't like consult other doctors Too old fashioned	37 15	37	37	42 15	34	39
Work too fast—make mistakes	34	14 37	33	34	23	15 32
Not careful or gentle enough	17	18	16	32	12	16
Hurt when examining	13	14	12	19	12	14
More interested in money	39	43	37	36	36	38
Suggest unnecessary visits	35	39	33	36	27	33
Charge too much money	46	46	46	55	42	46
	·	· · · · · · · · · · · · · · · · · · ·	·			

See footnotes at end of table.

Table 8. Confidence in doctors' skill and belief in his concern with patient's welfare by co-operation groups, NORC, 1958--Continued

		Census: Yes			Census	Census: No	
Confidence in doctors' skill and	A11		NORC:	NOR	NORC:		
concern with patients welfare	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK	
		Perce	nt dist	ributio	n		
J. Criticisms of own doctor: (40)	*	*	*	*	*	*	
Don't give chance to tell trouble	15	15	18	13	9	13	
Not enough personal interest	21	25	22	17	16	13	
Not enough free time for needy	8	11	8	9	2	4	
Not tell you things ought to know	11	12	14	15	5	9	
Give better care to regular patients	13	15	15	6	11	10	
Not set appointments right	31	34	33	34	23	27	
Give unnecessary medicine	8	9	9	4	6	9	
Don't like consult other doctors	6	/	9	4	2	8	
Too old fashioned Work too fast—make mistakes	8	10	4	8	7	1 /	
	6	6	5	8	3	4 2	
Not careful or gentle enough Hurt when examining	6	6	5	9	7 5	1,	
More interested in money	10	12	8	8	11	11	
Suggest unnecessary visits	14	15	14	11	13	16	
Charge too much money	17	18	18	15	15	14	

<sup>&</sup>lt;sup>1</sup>Does not necessarily represent total usage, since they are mentioned voluntarily and are not explicitly asked about on the original question.

<sup>\*</sup>Percentages are nonadditive.

<sup>\*\*</sup>Less than 1 percent.

Table 9. Attitude toward clinics and role of government's health matter by co-operation groups, NORC, 1958

		Cen	sus: Ye	s	Census	: No
Attitudes toward clinics	A11		NORC:		NOR	C:
Attitudes toward crimites	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
Number of respondents	762	249	237	53	92	79
		Perc	ent dis	tributi	on	
A. Experience with clinics or medical centers: (41)	100	100	100	100	100	100
Never had any  Had care in past 5 years  Had care more than 5 years ago  Kind of clinics or medical center:	50 34 16	38 41 21	53 35 12	55 26 19	57 32 11	70 22 8
Public Private Don't know	26 23 1	30 30 2	25 22 -	21 24 -	23 19 1	17 12 1
Satisfaction with care in clinics:  Entirely satisfied  Not entirely satisfied	76 24	77 23	73 27	74 26	87 13	78 22
B. Care by salaried doctors compared with private doctors: (43)	100	100	100	100	100	100
Better Worse Same Don't know	4 25 61 10	5 22 63 10	3 25 63 9	4 23 58 15	4 32 55 9	8 20 57 15
C. Criticisms of public clinics: (44)	*	*	*	*	*	*
Doctors not experienced or well trained Too busy to give you personal attention Don't have up-to-date equipment Not concerned about patient's feelings Have to wait too long until doctor sees you Sent to different doctor every time Doctors don't try hard enough because you	20 40 10 23 61 38	22 40 10 24 59 39	18 37 9 20 62 38	21 47 4 24 76 43	20 37 9 18 58 35	19 42 9 25 62 35
don't pay  Doctors not considerate or gentle when  examining you	13 16	16 17	12 16	9	12	14 15
Make you feel they're doing you a favor	21	21	22	23	20	23
D. Attitudes toward role of government in health matters:(46)	*	*	*	*	*	*
Disagree "health is no business of government" Agree "all doctors should work for government" Agree "government should test all new	88	91 17	90	77 8	91 8	78 9
vaccines" Disagree "government should not provide free	89	91	92	77	94	80
service to needy" Disagree "government should not set up own labs"	89	93	89	91	87	84
Disagree "government should not provide any health insurance"	63	86 73	78 62	68 43	83 65	53
Agree "government should give private hospitals money for research"	80	82	84	72	76	71
Agree "government should make health studies"-	94	96	96	89	98	85

<sup>\*</sup>Percentages are nonadditive.

Table 10. Situational and environomental factors in arrangements for a health examination by co-operation groups, NORC, 1958

co-operation groups, NORC, 1958  Census: Yes Census: No							
		Ce		es		us: No	
Factors in arrangements for a	A11		NORC:	_	N	ORC:	
health examination	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK	
Number of respondents	762	249	237	53	92	79	
		Percen	t distr	ibution	1		
A. Beliefs of others' willingness to take	100		100	1			
examination: (47)	100	100	100	100	100	100	
Certainly come	12	27	4	-	11	1	
Probably come	56	56	72	21	61	32	
Probably <u>not</u> come	27 5	14	22	66	25	48 19	
Would you be more likely to come if the examination had the approval of: (51)							
Own doctor	100	100	100	100	100	100	
More likely	42	39	50	38	48	21	
Less likelyNo difference	*   56	61	- 48	2 58	49	70	
Don't know	2	*	2	2	2	8	
Local medical society	100	100	100	100	100	100	
More likely	34	35	42	21	38	11	
Less likely	1	*	*	2	-	1	
No difference Don't know	63	64	57 1	66	62	80 8	
Religious advisor	100	100	100	100	100	100	
More likely	24	28	27	15	29	11	
Less likely	1	-	*	- 01	2	3	
No difference	74	72	71	81	68	81	
Newspaper, radio, television	100	100	100	100	100	100	
More likely	20	25	23	2	25	4	
Less likely	2	1	1	-	4	1	
No difference Don't know	77	74	75 1	94	70 1	90	
	1	^		4		5	
Spouse or friends	100	100	100	100	100	100	
More likely	47	45	54	42	59	25	
Less likely No difference	1 51	2 53	* 45	- 58	- 40	1 70	
Don't know	1	-	1	- 0	1	70	
	İ						
B. Information needed for decision of whether to co-operate: (49)	**	**	**	**	**	**	
None	36	45	28	42	24	55	
Describe tests	50	44	55	45	62	32	
Why was I selected	16	12	18	21	20	13	
Time required for tests	5	4.	7	2	10	5	
What kind of tests do you think would be	)	4	6	8	3	4	
included in survey? (50)	**	**	**	**	**	**	
No idea	34	28	37	38	28	47	
Heart examinationLung examination	35	40	33	32	37	24	
Dong Chamination	32	30	34	32	40	24	

See footnotes at end of table.

Table 10. Situational and environmental factors in arrangements for a health examination by co-operation groups, NORC, 1958--Continued

co-operation groups, none,						
		Cen	sus: Ye	S	Census	: No
n	411					
Factors in arrangements for a	A11		NORC:		NOR	<u> </u>
health examination	persons	Cer-	Prob-	N- DV	V	N- DV
		tainly	ably	No-DK	Yes	No-DK
					L	
		Perce	nt dist	ributio	n	
B. Information needed for decision, etc.—Con.			1	1	1	ı
Kind of tests included in survey, etc.—Con.						
Blood tests	25	31	22	15	24	15
Urinalysis	21	24	20	11	17	19
X-ray	19	22	17	17	14	24
Height, weight, eyes, ears	18	22	17	17	20	9
Over-all checkup	23	27	22	13	20	19
C. What kinds of tests would you especially						
like? (50)	**	オオ	**	**	**	**
None in particular, don't know whatever						
necessary	64	52	62	78	68	88
Heart	10	11	10	10	11	2
Cancer	6	7	7	6 2	7	2
LungsGeneral physical	6	5 8	6	4	10	3 2
Specific symptoms	12	17	12	2	10	6
Specific symptoms	12	17	14		10	0
D. What kinds of tests would you rather not						
have? (50)	**	**	**	**	**	**
None	83	88	81	83	82	76
Pelvic, internal	4	3	3	4	3	5
Blood tests	3	3	5	2	3	_
Miscellaneous	4	5	3	_	7	3
Don't want to be guinea pig	2	1	3	-	4	-
Don't need examination	4	*	-	9	1	28
Other vague and irrelevant	6	3	6	11	3	18
E. Examination arrangements: (52)**					1	
Travel time:						
5-10 minutes	89	100	100	62	99	33
15-20 minutes	87	99	98	58	97	29
One hour	63	88	65	13	67	11
Time of day:  Morning during week	57	71	67	36	58	5
Afternoon during week	58	72	64	26	72	9
Evening during week	69	84	74	42	77	24
Saturday morning	65	78	74	30	72	17
Saturday afternoon	65	80	72	28	72	17
Length of examination:					-	
30 minutes	89	99	99	68	99	34
1 hour	84	99	93	55	96	24
1 hour, 30 minutes	75	96	81	30	85	18
Second visit	82	98	90	45	92	23
Place of examination:						
Hospital or medical center	87	99	97	62	98	30
Church or school	79	94	88	47	87	23
Special trailer parked outside	74	88	82	47	87	24
Local doctor's office	88	99	99	59	100	33
Person giving examination:	0.0	0-				1
Own doctor	89	97	98	72	97	48
Other local doctor	83	97	94	49	92	23
Specialist approved by AMA	88	100	99	57	99	32
Financial considerations: Taxicab fare is paid	83	97	93	55	89	24
Not appropriate		1				(3)
Baby sitter paid	(5) 32	(2)	(5) 36	(8)	26	10
Not appropriate	(62)				1	
Paid for time at examination	82	95	90	58		32
Not appropriate	(5)	1				
- PFPF	L			L'	(3)	

Table 10. Situational and environmental factors in arrangements for a health examination by co-operation groups, NORC, 1958--Continued

		Cen	sus: Ye	Census	Census: No	
Factors in arrangements for a	A11	1	NORC:	NORC:		
health examination	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
E. Examination arrangements—Continued Person examined:	Percent distribution					
Adults only Not appropriate Adults and children	79 (9) 54		87 (8) 60	62 (9) 47	91 (4) 60	28 (10) 19
Not appropriateOnly youPersonal modesty:	(39)	(40) 99	(39) 98	(36)	(38) 97	(43) 29
Undress completely Undress above waist Wear coverall gown	82 86 88	96 99 100	91 96 98	51 57 62	95 99 98	27 30 34
Voluntary mention of other arrangements:  Want definite appointment Give choice of times	1 3	1 3	1 4	2 4	1 2	1 -
Specified hour—not working hourIf other people I know go	9	11 *	10 *	11 2	9 2	1 -

<sup>\*</sup>Less than 1 percent.

<sup>\*\*</sup>Percentages are nonadditive.

Table 11. Selected characteristics of co-operation groups, NORC, 1958

		Cen	sus: Ye	s	Census	: No
Characteristics	A11		NORC:		NOR	C:
	persons	Cer- tainly	Prob- ably	No-DK	Yes	No-DK
Number of respondents	762	249	237	53	92	79
		Perc	ent dis	tributi	on	
A. Sex	100	100	100	100	100	100
MaleFemale	50 50	48 52	46 54	55 45	62 38	49 51
B. Family relationship	100	100	100	100	100	100
Head Wife Child Other relative Unrelated	59 32 5 3 1	62 30 3 4	56 37 4 2	58 32 6 2 2	63 27 6 4	56 32 6 4 2
C. Marital status	100	100	100	100	100	100
Married Widowed Divorced Separated Never married	77 6 4 4 9	74 7 7 7 5	78 8 2 1 11	73 6 4 4 13	83 3 2 4 8	79 6 5 - 10
D. Labor force status	100	100	100	100	100	100
Working Looking for work Keeping house School Other	63 1 31 2 3	60 2 33 1 4	61 1 34 3 1	64 - 32 - 4	67 1 23 2 7	66 1 28 1 4
E. Race	100	100	100	100	100	100
White Nonwhite	86 14	77 23	87 13	89 11	94 6	95 5
F. Age	100	100	100	100	100	100
18-34 35-49 50+	32 36 32	27 41 32	36 37 27	38 28 34	34 37 29	19 27 54
G. Income	100	100	100	100	100	100
Under \$3,000 \$3,000-4,999 \$5,000-6,999 \$7,000+	19 27 27 27	25 30 27 18	20 25 29 26	25 27 13 35	11 32 26 31	13 23 26 38
H. Education	100	100	100	100	100	100
Grade school High school College	26 51 23	32 53 15	24 52 24	34 32 34	19 55 26	23 58 19

Table 11. Selected characteristics of co-operation groups, NORC, 1958 \*- Continued

		Cer	ısus: Ye	S	Census	Census: No	
Characteristics	All persons		NORC:	NORC:			
		Cer- tainly	Prob- ably	No-DK	Yes	No-DK	
		Perce	ent <b>di</b> st	ributio	n		
I. Self and proxy respondents	100	100	100	100	100	100	
Self respondentProxy respondent	64 36	68 32	68 32	64 36	46 54	71 29	
J. Males—Veterans status:  Veterans(N=162)  Nonveterans(N=193)	100 100	35 32	36 27	9	13 19	7 14	
K. Males—Veterans status by age: 18-34							
Veterans(N=64) Nonveterans(N=36) 35-49	100 100	30 25	42 28	12 14	11 25	5 8	
Veterans(N=69) Nonveterans(N=69)	100 100	36 36	35 30	7 5	15 20	7 9	
<u>50+</u> Veterans(N=29)  Nonveterans(N=88)	100 100	45 33	24 24	3 8	14 15	14 20	

<sup>\*</sup>Source: Data from Household Interview Survey.

Table 12. Intention to co-operate on health examination reported to NORC by region and size of urban area

Region and urban size	All p	ersons	Co-operators	Non-
	Number	Percent		co-operators
Region:	237	100	75	25
Midwest	231	100	81	19
South	156 138	100 100	83 86	17 14
West	130	100	00	14
Urban size: Large metropolitan (over 1,000,000)	386	100	78	22
Small metropolitan (under 1,000,000	277	100	84	16
Other urban areas	99	100	82	18

Table 13. Index of health status by co-operation groups, NORC, 1958

Index of health status		All persons		rators	Nonco-operators		
	Number	Percent	Number	Percent	Number	Percent	
Health status:  No chronic conditions—saw no doctor in past year  No chronic conditions—saw doctor in past year  One chronic illness  Two or more chronic illnesses	164 182 216 200	100 100 100 100	129 150 164 171	79 83 76 86	35 32 52 29	21 17 24 14	

### APPENDIX I

# COMPARISON OF RATIOS DERIVED FROM THE NORC SAMPLE AND THE NHS URBAN SAMPLE

Since the sample for this study was not based on a probability design, it was not possible to make the usual statistical inferences as to the precision of estimates. However, it was possible to compare the magnitudes of ratios derived from the NORC sample with those obtained from the NHS urban sample which is representative of the U. S. urban population.

As pointed out in the section on methodology, the NORC sample was selected from a large NHS sample in which a supplemental question on co-operation was asked. The ratios used in this comparison were based on answers given on the original inquiry by the total urban sample and that portion used in the NORC sample.

Table I. Percent of persons willing to participate in a health examination survey and distribution of persons in NORC and U.S. urban sample by selected characteristics

	Percent to part	willing icipate		stribution rsons
Characteristic	NORC sample	U.S. urban sample	NORC sample	U.S. urban sample
Race Total	72.9	69.2	100.0	100.0
Tota1	72.9	69.2	100.0	100.0
White	70.1	67.0	84.9	87.1
Nonwhite	88.5	84.1	15.1	12.9
Sex				
Male	69.3	67.5	50.1	47.0
Female	76.5	70.6	49.9	53.0
Age				
18-24	69.7	72.0	9.6	14.5
25-44	78.4	73.3	47.6	46.6
45-64	67.5	63.1	42.8	38.9
Education*				
Under 9 years	73.1	67.1	29.2	34.5
9-12 years	74.0 69.8	71.6 67.4	49.2 21.6	45.0 20.5
1. Jeans of correge	03.0	57.4	21.0	20.3
Income**				
Under \$2,000 \$2,000-4,999	73.3	62.6 73.7	15.2 34.3	17.7 33.4
\$5,000-6,999	73.8	71.8	25.0	24.3
\$7,000+	66.5	65.2	25.5	24.6
Time interval since doctor last seen Under 3 months	75.0	70.7	36.0	35.5
3-11 months	75.0	71.2	30.2	29.8
1-2 years	70.1	70.5	19.9	19.3
3+ years	66.7	60.0	13.9	15.4
Number of chronic conditions				
None	69.3	66.3	45.9	51.0
1	71.4	70.6	27.9	27.0
2	81.4	73.7	15.8	12.4
3+	79.2	74.5	_10.4	9.6

<sup>\*</sup>Education of head of household and of unrelated individuals in the household.

<sup>\*\*</sup>Income of family and unrelated individuals.

Table II. Percent of persons willing to participate in a health examination survey and distribution of persons in NORC and U.S. urban sample by region and place of residence

	Percent to part	willing icipate		stribution
Region by place of residence	NORC sample	U.S. urban sample	NORC sample	U.S. urban sample
All regions	72.9	69.2	100.0	100.0
Large metropolitanSmall metropolitanOther urban	69.2 75.6 78.4	65.5 67.1 76.6	49.9 34.0 16.1	39.0 32.5 28.5
Northeast	66.1	60.7	100.0	100.0
Large metropolitan	65.8 66.7 66.7	60.2 55.8 68.8	70.6 14.9 13.6	59.1 23.7 17.2
North Central	75.6	71.6	100.0	100.0
Large metropolitan	69.2 80.3 84.6	71.5 68.8 75.0	49.7 31.6 18.7	34.8 35.1 30.1
South	69.7	73.3	100.0	100.0
Large metropolitanSmall metropolitanOther urban	52.6 68.1 80.5	59.5 69.3 81.4	14.4 54.5 31.1	11.9 45.0 43.1
West	83.5	73.8	100.0	100.0
Large metropolitanSmall metropolitanOther urban	82.5 84.1 100.0	70.6 75.2 78.2	49.6 49.6 0.8	47.7 26.1 26.2

Data are presented in tables 1 and 11 for both samples on a number of selected characteristics. These indicate the relative distributions in both samples of persons included and the proportion indicating a willingness to participate in a health examination survey.

The ratios on willingness to accept an examination were consistently higher in the NORC sample than those derived from the U. S. urban sample. Although most of the differences were slight, affirmative co-operation ratios from the NORC sample were particularly higher for those with income under \$2,000, persons with two chronic conditions, and where the person indicated a period of 3 or more years since a doctor was last seen (table 1).

In all regions but the South, with the exception of other urban areas in the Northeast, the NORC ratios of willingness to co-operate were consistently higher than the corresponding ratios in the U. S. urban sample. The

widest differences were generally observed in the small metropolitan areas although ratios in other urban areas were higher in the North Central and West (table II).

The two samples were quite similarly distributed with respect to the characteristics presented in table I with perhaps the most noticeable difference being in the proportion of persons 18-24 years of age. Over-all, the NORC sample distribution contained a larger proportion of persons in large metropolitan areas and a correspondingly lower proportion in the smallest urban places of residence.

In summary, from the evidence presented in these tables, the sample used by NORC in the study of attitudes toward participation in a health examination did not seem to differ grossly from the representative U. S. urban sample. Thus, the findings in this report should be good approximations to what would have been obtained if the sample had been based on a probability design.

## APPENDIX II

## QUESTIONNAIRE

The items below show the exact content and wording of the questionnaire used in this study. The actual questionnaire used different spacing arrangements and provided for precoding most of the answers.

	(afternoon, evening) I'm from the Natlonal Opinion Research Center. As this letter says, the Public Health Service asked us to do a special study for them and to ask you some additional questions. The first one is
1.	Would you say your own health, in general, is excellent, good, fair, or poor? □Excellent □Good □Fair □Poor □Don't know
2.	All in all, do you think that most people take the best possible care of their health, or could they take better care than they do?  Take best care Could take better care Don't know
3.	Would you say you take the best possible care of your own health now, or could you take better care of your health than you do?  □Best possible care □Could do more □Don't know
	A. IF "COULD DO MORE": What are some of the things you could do to take better care of your health?
4.	Do you think the way you live makes a great deal of difference in how healthy you are, makes some difference or hardly any difference at all?  Great deal Some difference Hardly any Don't know
5.	Now, if you had a chance to talk to your doctor for half an hour, at no cost to you, are there any things about your health that you'd like to ask him?
	A. IF "YES": What sort of things would you ask him about?  B. IF "NO": Why is that?
6.	A. Would you say you think about your health fairly often, once in a while, or hardly ever?  B. Do you talk about your health with your family and friends fairly often, once in a while, or hardly ever?  a. Think about:     Fairly often   Once in a while   Hardly ever   Don't know
	b. Talk about:   Fairly often   Once in a while   Hardly ever   Don't know
7.	During the last year, have you felt at any time that you should have seen a doctor, but didn't?  \[ \text{Yes}  \text{No}  \text{Don't know} \]
	IF "YES", ASK BOTH "A" & "B"  A. Was it anything that kept you from doing your regular work, or were you able to continue your usual activities?
	B. Why didn't you see a doctor?
8.	A. Looking ahead over the next year, how likely do you think it is that you may be sick in bed for about a week all toldVery likely, only fairly likely, or not likely at all?    Very likely   Fairly likely   Not likely   Don't know
	B. <u>IF "NOT LIKELY" OR "DON'T KNOW":</u> How about being sick in bed for 3 or 4 daysWould you say it is very likely, only fairly likely, or not likely at all?    Very likely   Fairly likely   Not likely   Don't know
	IF "VERY LIKELY" OR "FAIRLY LIKELY" ON "A" OR "B" OR "DON'T KNOW" ON "B", ASK "C"
	C. Do you think there's anything you could do to prevent that?  ☐Yes ☐No ☐Don't know
9.	And how likely does it seem to you that you might get tuberculosis, arthritis, or a heart attack in the next 5 or 10 years—Very likely, fairly likely, or hardly likely at all?    Very likely   Fairly likely   Hardly likely   Don't know
10.	All in all, in order to do your work well, would you say that it is necessary for you to have especially good health, to have fairly good health, or could you do your work well even if you were not feeling so well?  □Especially good □Fairly good □Not so well □Don't know

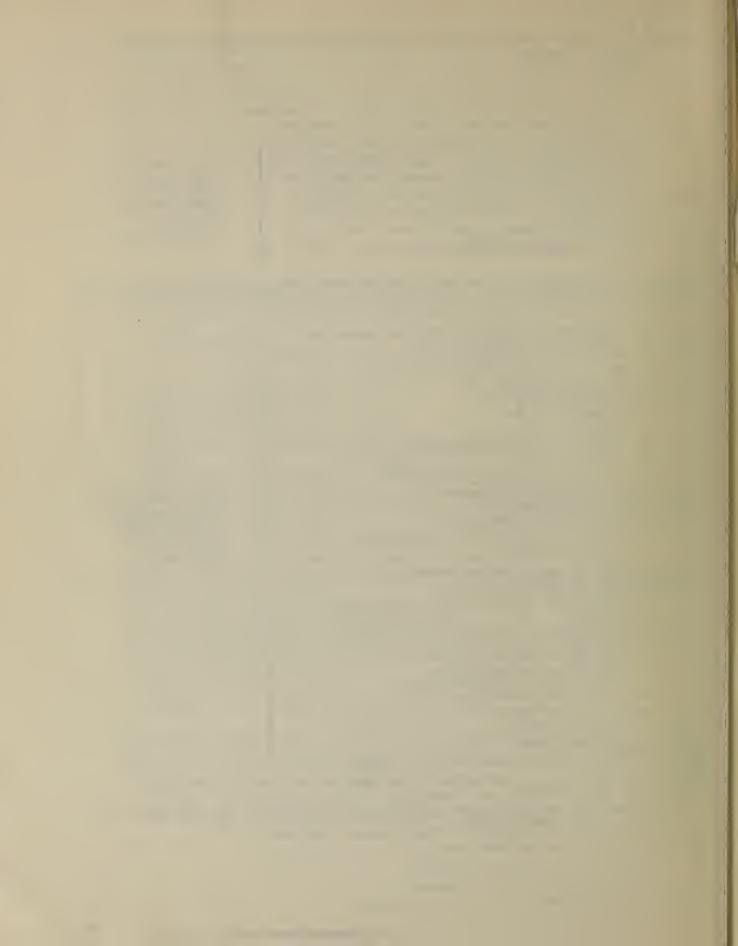
11.	A. Now, if you were sick in bed for a week, would there be somebody who's living here to take care of you, or could you get somebody in pretty easily or would it be hard to get somebody?  Somebody here Get someone easily Hard to get somebody Don't know					
	B. By the way, do you have a job outside your home? ☐Yes ☐No					
	IF "YES", ASK "C" & "D"					
	C. Would you lose all of your income during that time, or only part of it, or wouldn't you lose any income at al if you were sick in bed for a week?					
	D. In other ways—other than income, that is—would it hurt you on your job a great deal, or some, or wouldn't it be very serious (if you were sick in bed for a week)?  ☐ Hurt great deal ☐ Hurt some ☐ Not very serious . ☐ Don't know					
12.	And how much trouble would the rest of the family have in taking care of the house if you were sick in bed for a week—a great deal of trouble, some trouble, or not much at all?  Great deal Some trouble Not much at all No family Don't know					
13.	Now suppose you had a large medical bill not covered by insurance—say for \$500 or more—would you have great difficulty in paying it right away, a moderate amount of difficulty, or hardly any difficulty at all?  Great difficulty Moderate amount Hardly any Don't know					
14.	Now I'd like to ask you about some particular illnesses. If a person should get (each condition) do you think he could tell right away something was wrong by the way he felt or might he not know for some time that something was wrong? How about (next condition)?					
	Diabetes   5. Arthritis or rheumatism   For each condition check:   2. Cancer   6. Polio   Can tell right away     3. Asthma   7. Tuberculosis   □Yes □No □Don't know     4. Liver trouble   8. Heart trouble					
15.	From what you've heard or read, do you happen to know any of the signs or symptoms of polio? (What are they?) Any other ways a person could tell he had polio? (specify)					
16.	How about T.B. (tuberculosis)—do you happen to know any of the signs or symptoms of T.B.? (What are they?) Any other ways a person could tell he might have T.B.? (specify)					
17.	And how about diabeteswhat are its signs or symptoms? Any other ways a person could tell he might have diabetes?					
18.	Now on this card is a list of health conditions that people sometimes have. I'll read each one and I'd like you to tell me if you think a person should see a doctor about it immediately, if he should take care of it himself unless it gets worse, or if he should leave it alone? First, how about "coughing for 5 or 6 days?" [How about (next condition)?]					
	I. Coughing for 5 or 6 days  2. Diarrhea or constipation for several days  3. Feeling tired all the time  4. Frequent headaches  5. Lump or discolored patches on skin  7. Sore throat, running nose  8. Unexpected loss of 10  pounds  9. Feeling thirsty all the time  10. Pains in the chest  Check: for each condition  See doctor  Cure self  Leave alone					
10	6. Shortness of breath II. Pains in the stomach Don't know					
19.	A. Now, on the other side of that card (HAVE RESPONDENT TURN CARD OVER) —— I'd like you to tell me if you your-self had any of these conditions at any time during the last year or so? (Check under "A" all those mentioned.) The first one is "coughing for 5 or 6 days"?					
	B. FOR EACH CONDITION MENTIONED IN "A", ASK: Did you happen to see a doctor about (condition) in the past year?  (Check one of the three codes under "B")					
	I. Coughing for 5 or 6 days  13. Arthritis, rheumatism  2. Diarrhea or constipation for several   14. Asthma					
	days. I5. Diabetes 3. Feeling tired all the time I6. Gallbladder or liver B. For each condition re-					
	4. Frequent headaches trouble ported: 5. Lump or discolored patches on skin 17. Heart trouble □Saw doctor					
	6. Shortness of breath 18. High blood pressure					
	B. Unexpected loss of 10 pounds 20. Piles					
	9. Feeling thirsty all the time 21. Sinus trouble 10. Pains in the chest 22. Varicose veins					
	II. Pains in the stomach   None of them					
	IF HAD CONDITION AND DID NOT SEE DOCTOR, ASK "C"					
	C. How is it that you didn't see a doctor about (conditions for which no doctor seen)? (Write number of each condition before answer.) (specify)					
20.	Now, if a person had an "allergy," do you think a doctor could cure it completely, could be help it but perhaps not cure it, or couldn't be help it at all? How about (next condition)?					
	<ol> <li>Allergy</li> <li>Arthritis or rheumatism</li> <li>B. Kidney trouble.</li> <li>☐Complete cure</li> </ol>					
	3. Asthma 9. Piles \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
	4. Diabetes 10. Sinus trouble Couldn't help					
	6. Heart trouble					

21.	ter, much worse, or a little worse than they used to be?  Much better  Little better  Much worse  Little worse  About the s	·
22.	All in all, how much interest do you think doctors take in their patients today comore, a little more, much less, or a little less interest than they used to?    Much more	npared tn 30 years agomuch □Don't know
23.	than they did 30 years ago?	e, a lot less, or alittle less □Don't kn~…
24.	And do you think the medicines we have today are much better, a little better, or ago? Much betterLittle betterWorseAbout the sameDon't know	worse than they were 30 years
25.	Do you think enough is being done in this country to discover the causes of disea ☐Yes ☐No ☐Don't know	se?
26.	And do you think enough is being done to discover new cures for disease?	
27 .	And have you ever had a complete physical examination? ☐Yes ☐No	
	A. Do you get a complete physical exam regularly every year or two, or just occ    Every year or two   Just occasionally   Don't know	asionally?
	B. About how long ago was the last time? ☐Less than I year ☐I year, less than 2 ☐2 years, less than 3 ☐3 ☐5 years, less than IO ☐IO years or more	years, less than 5
	C. Why did you go to the doctor at that time?	
2B.	And have you ever gone to a doctor for a check-up or examination even though you especially wrong with you?  ☐Yes ☐No	didn't think you had anything
	IF "YES", ASK "A" & "B"  A. About how long ago was this?  Less than I year  I year, less than 2  2 years, less than 3  3  5 years, less than 10  10 years or more	years, less than 5
	B. And why did you go to the doctor then?	
29.	Now here are some reasons people give for not seeing a doctor. For each one, I'd you yourself have ever felt this way. (Some people say (read statement). Have	
	A. I mean to go but something always seems to come up B. I don't like to bother the doctor unless I'm sick C. Regular exams just make you worry—it's like looking for trouble D. I don't like doctors and avoid them as much as possible E. I don't want to spend the money if I'm feeling all right F. A person understands his own health better than most doctors do G. I don't like being examined—the doctor might hurt me or make me feel uncomfortable	For each condition check:
	H. The doctor might tell me I needed some expensive medicine or treatment I. Disease is a punishment for our sins and can't be avoided	□Yes
	J. I don't think doctors can help me any K. I don't want my family or friends to know I'm sick	No □Don't know
	L. The doctor's office is so far away	
	M. I don't want to waste so much time waiting for the doctor to see me N. The doctor might want me to change my ways, like rest more or stop smoking	
	O. If I'm sick, I can get better by myself without any doctor P. The doctor might want to put me in a hospital Q. You don't learn much about your health from regular check-ups R. If you feel all right, the chances are you are all right	
30.	During the last year, has anyone suggested you see a doctor, but you didn't go?  ☐Yes ☐No	
	IF "YES", ÀSK "A" & "B"  A. Who was that?    Spouse   Other relative   Friend, acquaintance   Other (specify)	
	8. Why didn't you go?	
31.	Do you ever argue with anyone else in the family about whether one of you should Yes No No family Don't know	see a doctor?
	A. IF "YES": Who wants who to go to the doctor?	

32.	Do you have a doctor or clinic you usually go to when you're sick?  Tes No
	A. IF "YES": What kind of doctor (clinic) is he (it)?
	B. IF "NO": Have you ever had a regular doctor whom you'd go to when you were sick?  Yes No
33.	During the past year, have you or anyone in your family been to:
	A. A chiropractor For each practitioner check:
	B. An osteopath Yes
	C. A medical doctor
	D. Any other person for treatment or healing   Don't know
34.	Some people say they're afraid of seeing a doctor. What do you suppose they mean by that?
35.	Now could you tell me if you yourself, or anyone you know, ever had any bad experience with a doctor which made you lose some confidence in doctors generally?
	IF "YES", ASK "A", "B", & "C"
	A. Who had that experience?  ☐Respondent ☐Spouse or child ☐Other relative ☐Friend, acquaintance
	B. About how long ago was that (the last time)?
	□Less than I year ago □I year, less than 3 □3 years, less than 5 □5 years, less than 10 □10 years, less than 25 □25 years or more
	C. What was it that made you lose some confidence in doctors?
36.	And how would you rate your doctor in comparing him with most other doctors in the United States—would you say he is much better than most, or a little better than most, about average, or not as good as most?    Much better   A little better   About average   Not as good   Don't know
37.	Have you been entirely satisfied with the care and treatment you and your family got from doctors during the
, , .	past five years or so, or were there some things about the care that you were not satisfied with?  [Entirely satisfied Some things not Don't know]
	A. IF "SOME THINGS NOT": What was that?
38.	Could you tell me if you read about health matters in newspapers or magazines often, once in a while, or hardly
	ever?OftenOnce in a whileHardly everDon't know
	The second secon
	A. IF "HARDLY EVER": Is that because you don't read the newspapers or magazines much or because you usually skip the health items?  Don't read papers, magazines
7.0	
39.	How about radio and television programs dealing with health or medicine—do you listen to those often, once in a while, or hardly ever?  Often Once in a while Hardly ever Don't know
	A. IF "HARDLY EVER": Is that because you don't listen to radio or television very much, or because you don't
	tune in on health programs?  Don't listen much Don't tune in health Dother (specify) Don't know
4.0	A. Now here are some things people sometimes don't like about doctors. I'd like to know whether you personally
40.	think they are true of most doctors, true of some doctors, or true of hardly any. For example (Read " ") do you think that's true of most doctors, true of some doctors, or true of hardly any?
	B. FOR EACH ANSWER OF "MOST" OR "SOME" IN 40 A ASK: Have you yourself ever had a doctor like this?
	1. They don't give you a chance to tell them exactly what your trouble is
	2. They don't take enough personal interest in you
	3. They don't give enough free time to people who need it
	4. Doctors like to give you medicine even if you don't need it  5. Doctors don't like to get other doctors' opinions about a condition
	6. Doctors give better care to their regular patients than to people they
	don't know so well
	8. Doctors don't set appointments right—you have to wait too long to see
	9. Doctors want you to come back for additional visits even if you don't  B.
	need to  10. Doctors are more interested in making a lot of money than in finding ☐No
	out what is really wrong with you  II. Doctors hurt you when they examine you and make you feel worse than
	when you came in
	12. Doctors take advantage and charge you more than they should
	13. Doctors are too old fashioned and don't keep up with modern medicine
	14. Doctors work too fast and make mistakes in finding out what's wrong with you
	15. Doctors aren't careful and gentle enough when they examine you

41.	Α.	During the last five years or so, have you received any care or treatment at any clinic or medical center  Yes No Don't know	?	
	в.	<u>IF "NO":</u> Have you <u>ever</u> received any care or treatment at a clinic or medical center? □Yes □No □Don¹t know		
	IF "YES" TO "A" OR "B", ASK "C" & "D"			
	С.	Was it a public or private one? □Public □Private □Don't know		
	Ο.	Were you always entirely satisfied with the care and treatment they gave you, or were there some things you were not so satisfied with?  □Entirely satisfied □Not satisfied □Don't know	u	
	٤.	IF "NOT SATISFIED": What was the trouble?		
42.	Has	anyone you know ever had an experience with a public clinic which gave you a poor opinion of that service □Yes □No □Don't know	?	
	-	"YES", ASK "A" & "B"		
		Who was that?  ☐Spouse, child ☐Other relative ☐Friend ☐Other (specIfy) ☐Don't know		
		What was the trouble?		
43.	ba	you probably know, some doctors are hired by groups or business firms, to practice medicine on a salarle sis. From what you've read or heard, do you think most doctors who work for a salary are likely to trea eir patients better, or worse, or about the same as private doctors who charge fees? □Better □Worse □About the same □Don't know		
	Α.	IF "BETTER" OR "WORSE": In what way do they treat their patients (better, worse) than private doctors?		
44.		I'd like to read you some things people sometimes dislike about public clinics. For each one, I'd like you tell me whether you think it is generally true or not true about public clinics:	บ	
	B. C. D. E. F. G.	The doctors are not as experienced or well trained They are too busy to give you personal attention They don't have up-to-date equipment They aren't concerned about the patient's feelings You have to wait a long time until a doctor sees you You are sent to a different doctor every time The doctors don't try hard enough because you don't pay them for their services They're not as considerate or gentle when they examine you They make you feel as if they are doing you a favor to see you		
45.	As ne sa co	vou may know, the Public Health Service carries on several different kinds of programs—like studies on ill sses, aid for building new hospitals, and helping communities with their health problems. Are you entirel tisfied with the job now being done by the public health people, or are there some things you feel the uld do better?  □Entirely satisfied □Could do better □Don't know	у	
	Α.	IF "COULD DO BETTER": What are some of the things you think they could do?		
46.	A. B.	here are some different statements about the government and health. I'd like you to tell me whether your ree or disagree with each one. Now first, "The people's health is no" — Do you agree or disagree?  The people's health is no business of the government  All doctors should work for the government and be paid a salary	iu	
	D. E.	The government should test all new vaccines and medicines for safety The government should not provide free doctors! services for the needy The government should not set up its own laboratories for research The government should not provide any health insurance for the people to		
		help pay for doctor and hospital bills  The government should give private hospitals and universities money for		
		research The government should make studies and publish information on the nation's health		
47.	ju pe	you might expect, the Public Health Service cannot learn all they need to know about health in the nation st by asking questions. For some things they need actual measurements and tests. How do you think most ople you know will feel about helping on that part of the survey—will they certainly come, probably come obbably not come for these measurements and tests?	st	
48.	Α.	If you yourself are asked to come for the tests and measurements part of the survey, will you certainl come, probably come, or probably not come?  □Certainly come □Probably come □Probably not come □Don't know	у	
	В.	Why is that?		

49.	Before you decided on coming, would you have any questions about the tests you'd want to find out about the test want to find out the t	ut?			
	A. IF "YES": What are they?				
50.	A. What sort of tests do you think they would give you?   Any others?)				
	B. Is there anything you'd especially like them to check about your own health?				
	C. Is there anything you'd rather they did not do in such an examination?				
51.	A. If you knew that your own doctor approved of your coming, would you be more likely to come, would you be less likely to come, or wouldn't it make any difference in your coming for the tests and measurements?  B. If you knew the local medical society approved of your coming, would you be more likely to come, would you be less likely to come, or wouldn't it make any difference in your coming for the examination?  C. How about your religious advisor—if he approved, would you be more likely to come?  D. How about the local newspaper or radio—TV station—if they approved, would you be more likely to come?	estion:			
5 2.	. In planning for the tests, we are interested in finding out what arrangements will make it easier for t greatest number of people to come. I am going to read you some of the different ways the exam can be arrang and for each one I would like you to tell me if you will certainly come, if you will probably come, or if y probably won't come. The first one is (read A-I).				
	A. I. If it is given at: A place just 5-10 minutes from your home  2. A place just 15-20 minutes from your home  3. A place an hour from your home				
	B. I. What if it is given on a morning during the week 2. On an afternoon during the week 3. On an evening during the week 4. On a Saturday morning 5. On a Saturday afternoon				
	C. I. If your taxicab fare is paid 2. If a baby sitter were paid for when needed 3. If you were paid for the time spent at the examination				
	D. I. What if it was at a hospital or medical center  2. If it was at a church or school  3. At a special trailer unit parked outside  4. At a local doctor's office  Check for each ar  Will certainly	come			
	E. I. If your own doctor gave the exam  2. If some other local doctors gave the exam  3. If some specialists approved by the American Medical Association gave the exam	come			
	F. I. If the exam took only about half an hour 2. If the exam took about an hour 3. If the exam took an hour and a half 4. If a second visit were also necessary to get a more complete exam				
	G. I. If all the grownups in your home were offered the exam  2. If the children were also offered the exam  3. If only you were selected for the exam				
	H. I. If you were asked to undress completely 2. If you were asked to undress above the waist 3. If you could wear a coverall gown				
	Nould any lother) arrangement make it Imore) possible for you to come?				
	IF "YES": What is that?				
Now	here are just a few different questions and we'll be through.				
53.	Before the Census interviewer asked you about your own health—had you ever been interviewed before?				
54.	How important do you feel it is for people to cooperate on opinion surveys such as this, very important, fairly important, or hardly important at all? □Very important □Falrly important □Hardly important □Don't know				
55.	And in what countries were your parents born?				
	Mother				
	Father				
Date:	Time began:Time finished:				



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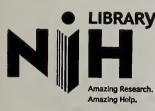
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